Decision Memo for Screening for Depression in Adults (CAG-00425N)

Decision Summary

The Centers for Medicare & Medicaid Services (CMS) has determined that the evidence is adequate to conclude that screening for depression in adults, which is recommended with a grade of B by the U.S. Preventive Services Task Force (USPSTF), is reasonable and necessary for the prevention or early detection of illness or disability and is appropriate for individuals entitled to benefits under Part A or enrolled under Part B.

Therefore CMS will cover annual screening for depression for Medicare beneficiaries in primary care settings that have staff-assisted depression care supports in place to assure accurate diagnosis, effective treatment and follow-up. For the purposes of this decision memorandum:

- A primary care setting is defined as one in which there is provision of integrated, accessible health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community. Emergency departments, inpatient hospital settings, ambulatory surgical centers, independent diagnostic testing facilities, skilled nursing facilities, inpatient rehabilitation facilities and hospice are not considered primary care settings under this definition.
- At a minimum level, staff-assisted depression care supports consist of clinical staff (e.g., nurse, physician assistant) in the primary care setting who can advise physician of screening results and who can facilitate and coordinate referrals to mental health treatment.

Back to Top

Decision Memo

TO: Administrative File: CAG-004275N

FROM:

Louis Jacques, MD Director, Coverage and Analysis Group

Tamara Syrek Jensen, JD Deputy Director, Coverage and Analysis Group

| Jyme Schafer, MD, MPH Director, Division of Medical and Surgical Services |
|---|
| Stuart Caplan, RN, MAS Technical Advisor, Division of Items and Devices |
| Lawrence Schott, MD, MS Lead Medical Officer, Division of Medical and Surgical Services SUBJECT: Final Coverage Decision Memorandum for Screening for Depression in Adults DATE: October 14, 2011 |
| I. Final Decision |
| The Centers for Medicare & Medicaid Services (CMS) has determined that the evidence is adequate to conclude that screening for depression in adults, which is recommended with a grade of B by the U.S. Preventive Services Task Force (USPSTF), is reasonable and necessary for the prevention or early detection of illness or disability and is appropriate for individuals entitled to benefits under Part A or enrolled under Part B. |
| Therefore CMS will cover annual screening for depression for Medicare beneficiaries in primary care settings that have staff-assisted depression care supports in place to assure accurate diagnosis, effective treatment and follow-up. For the purposes of this decision memorandum: |
| • A primary care setting is defined as one in which there is provision of integrated, accessible health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community. Emergency departments, inpatient hospital settings, ambulatory surgical centers, independent diagnostic testing facilities, skilled nursing facilities, inpatient rehabilitation facilities and hospice are not considered primary care settings under this definition. |
| • At a minimum level, staff-assisted depression care supports consist of clinical staff (e.g., nurse, physician assistant) in the primary care setting who can advise physician of screening results and who can facilitate and coordinate referrals to mental health treatment. |
| II. Background |

Printed on 4/6/2012. Page 3 of 50

| The USPSTF Recommendation Statement on "Screening for Depression in Adults" (December 2009) states the following: |
|---|
| • The USPSTF recommends screening adults for depression when staff-assisted depression care supports are in place to assure accurate diagnosis, effective treatment and follow-up. Grade: B recommendation . |
| Depression is a mental disorder characterized by alterations in mood. "Mood disorders are recurrent, life threatening (due to the risk for suicide) and a major cause of morbidity worldwide." The symptoms of depression have beer recognized as far back as ancient times, with Hippocrates referring to it as melancholia. The diagnosis of depression is not based on objective diagnostic tests (such as biopsies or serum chemistries) but on a highly variable set of symptoms. Nestler and others have suggested that "depression should not be viewed as a single disease, but a heterogeneous syndrome comprised of numerous diseases of distinct causes and pathophysiologies." Provided the symptoms of depression is not based on objective diagnostic tests (such as biopsies or serum chemistries) but on a highly variable set of symptoms. Nestler and others have suggested that "depression should not be viewed as a single disease, but a heterogeneous syndrome comprised of numerous diseases of distinct causes and pathophysiologies." Provided to be multifactorial and includes psychological, social and biological factors. |
| Among persons older than 65 years, one in six suffers from depression. Depression in older adults occurs in a complex psychosocial and medical context, and the prevalence of clinically significant depression in later life is estimate to be highest (~25%) in those with comorbidities including cancer, arthritis, stroke, chronic lung disease and cardiovascular disease. Frequency of other stressful events such as the loss of friends and loved ones increases with age, and bereavement is an important and well-established risk factor for depression. Opportunities are missed to improve mental health and general medical outcomes when mental illness is under-recognized and undertreated in primar sare settings. A significant number of older adults with depression are not diagnosed or treated in the primary care setting. Beliefs that depression is normal with older age, as well as difficulties presented by patients with cognitive deficits, make identification of depression in older adults challenging. |
| Depression wields significant public health impacts and economic costs. Pignone, et al. (2002), for instance, noted that depressive illness has substantial effect on healthcare utilization and is projected to be the second leading source of disability worldwide by 2020. In 2003, Greenberg, et al. reiterated that the economic burden of depression is substantial and estimated that the combined U.S. direct and indirect costs of depression were \$83.1 billion, including in billion in direct costs and the remainder in indirect, mostly workplace costs. |
| Critically, older adults have the highest risk of suicide of all age groups. In fact, a 1992 NIH Consensus Development Panel on depression in older adults found most of these patients were experiencing their first episode of major depressive disorder, which had gone unrecognized and untreated. Such patients are important in the primary care setting because > 50-75% of older adults who commit suicide saw their medical doctor during the prior month for general medical care, and 39% were seen during the week prior to their death. [10] |
| n the Diagnostic and Statistical Manual of Mental Disorders fourth edition (DSM-IV)[11], the criteria for a major depressive episode include five or more of the following symptoms that have been present during the same two week period and represent a change from previous functioning, with at least one of the symptoms being either depressed mood or loss of interest or pleasure: |
| |

| • | Depressed mood most of the day, nearly every day, as indicated either by subjective report (e.g., feels sad or empty) or observation made by others (e.g., appears tearful); |
|----|--|
| • | Markedly diminished interest or pleasure in all, or almost all, activities most of the day, nearly every day (as indicated either by subjective account or observation made by others); |
| • | Significant weight loss when not dieting or weight gain (e.g., a change of more than 5% of body weight in a month), or decrease or increase in appetite nearly every day; |
| • | Insomnia or hypersomnia nearly every day; |
| • | Psychomotor agitation or retardation nearly every day (observable by others, not merely subjective feelings of restlessness or being slowed down); |
| • | Fatigue or loss of energy nearly every day; |
| • | Feelings of worthlessness or excessive or inappropriate guilt (which may be delusional) nearly every day (not merely self-reproach or guilt about being sick); |
| • | Diminished ability to think or concentrate, or indecisiveness, nearly every day (either by subjective account or as observed by others); |
| • | Recurrent thoughts of death (not just fear of dying), recurrent suicidal ideation without a specific plan, or a suicide attempt or specific plan for committing suicide. |
| do | ecision memorandum does not deal with treatment options for depression but, in keeping with the USPSTF (2009) recommendation for depression screening, focuses on the identification of depressed patients in primary calls and the need for staff-assisted support systems to be in place to assure their accurate diagnosis, effective treatment and follow-up |

| More specifically, the scope of this memorandum is limited to the depression screening services described, and we are not considering our coverage policy for treatments of depression or any diseases, complications or chronic conditions resulting from depression. This analysis does not address therapeutic interventions such as pharmacotherapy, combination therapy (counseling and medications) or other interventions for depression. Self-help materials, telephone calls and web-based counseling are not separately reimbursable by Medicare and are not part of this analysis. |
|---|
| III. History of Medicare Coverage |
| Pursuant to §1861(ddd) of the Social Security Act, CMS may add coverage of "additional preventive services" if certain statutory requirements are met. Our regulations provide: |
| § 410.64 Additional preventive services |
| (a) Medicare Part B pays for additional preventive services not described in paragraph (1) or (3) of the definition of "preventive services" under §410.2, that identify medical conditions or risk factors for individuals if the Secretary determines through the national coverage determination process (as defined in section 1869(f)(1)(B) of the Act) that these services are all of the following: |
| (1) Reasonable and necessary for the prevention or early detection of illness or disability. (2) Recommended with a grade of A or B by the United States Preventive Services Task Force. (3) Appropriate for individuals entitled to benefits under [P]art A or enrolled under Part B. |
| (b) In making determinations under paragraph (a) of this section regarding the coverage of a new preventive service, the Secretary may conduct an assessment of the relation between predicted outcomes and the expenditures for such services and may take into account the results of such an assessment in making such national coverage determinations. [12] |
| Benefit Category |

IV. Timeline of Recent Activities

| March 3, 2011 | CMS initiates this national coverage analysis for screening for depression. The initial 30-day public comment period begins. |
|-----------------------|--|
| April 1, 2011 | Initial 30-day public comment period closes. CMS received a total of 22 comments. |
| July 19, 2011 | CMS posts the proposed decision memorandum. The second 30-day public comment period begins. |
| August 18, 2011 | The public comment period closes. CMS received a total of 35 comments. |

V. FDA Status

These services do not generally fall under the purview of the FDA.

VI. General Methodological Principles

When making national coverage determinations concerning additional preventive services, CMS applies the statutory criteria in §1861(ddd)(1) of the Social Security Act and evaluates relevant clinical evidence to determine whether or not the service is reasonable and necessary for the prevention or early detection of illness or disability, is recommended with a grade of A or B by the USPSTF and is appropriate for individuals entitled to benefits under Part A or enrolled under Part B of the Medicare program.

| Public commenters sometimes cite the published clinical evidence and provide CMS with useful information | . Public comments that provide information based on unpublished evidence such as the results of individual practitioners or |
|---|---|
| patients are less rigorous and therefore less useful for making a coverage determination. CMS uses the in | itial public comment period to inform its proposed decision. CMS responds in detail to the public comments that were received |
| in response to the proposed decision when issuing the final decision memorandum. | |

VII. Evidence

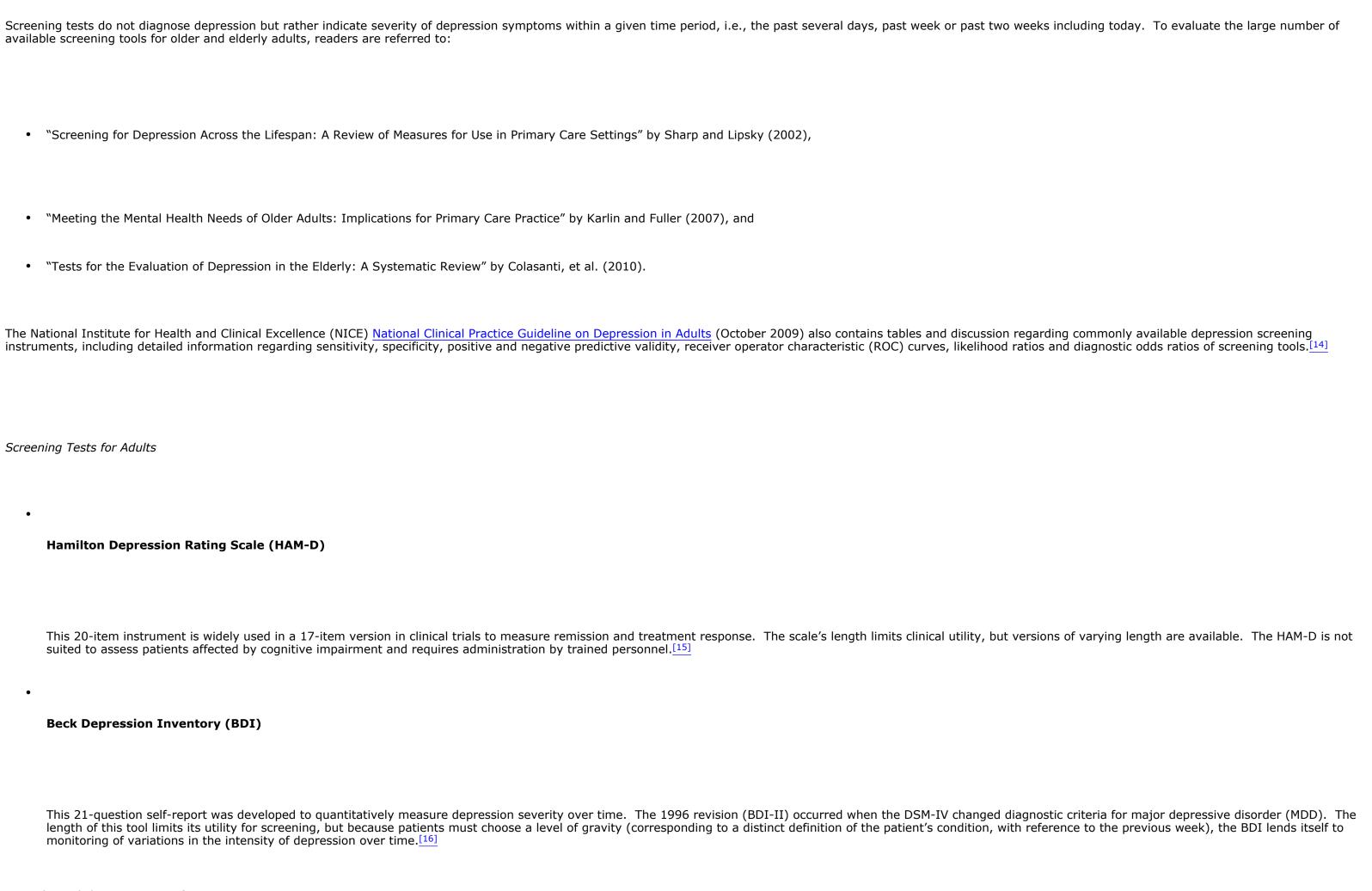
A. Introduction

Consistent with §1861(ddd)(1)(A) and 42 CFR 410.64(a)(1), additional preventive services must be reasonable and necessary for the prevention or early detection of illness or disability. With respect to evaluating whether screening tests conducted on asymptomatic individuals are reasonable and necessary, the analytic framework involves consideration of different factors compared to either diagnostic tests or therapeutic interventions. Evaluation of screening tests has been largely standardized in the medical and scientific communities, and the "value of a screening test may be assessed according to the following criteria:

- i. Simplicity. In many screening programmes more than one test is used to detect one disease, and in a multiphasic programme the individual will be subjected to a number of tests within a short space of time. It is therefore essential that the tests used should be easy to administer and should be capable of use by para-medical and other personnel.
- ii. Acceptability. As screening is in most instances voluntary and a high rate of co-operation is necessary in an efficient screening programme, it is important that tests should be acceptable to the subjects.
- iii. Accuracy. The test should give a true measurement of the attribute under investigation.
- iv. Cost. The expense of screening should be considered in relation to the benefits resulting from the early detection of disease, i.e., the severity of the disease, the advantages of treatment at an early stage and the probability of cure.
- v. *Precision (sometimes called repeatability).* The test should give consistent results in repeated trials.
- vi. Sensitivity. This may be defined as the ability of the test to give a positive finding when the individual screened has the disease or abnormality under investigation.
- vii. Specificity. This may be defined as the ability of the test to give a negative finding when the individual screened does not have the disease or abnormality under investigation."[13]

As Cochrane and Holland (1971) further noted, evidence on health outcomes, i.e., "evidence that screening can alter the natural history of disease in a significant proportion of those screened," is important in the consideration of screening tests since individuals are asymptomatic and "the practitioner initiates screening procedures."

1. Screening Tests for Depression



Zung Self-Rating Depression Scale (SDS) This 20-item measure of depression severity for those already diagnosed with depression is now also used in primary care as a screening tool. The SDS is available in a number of languages and can be completed by most persons in 5 minutes. Disadvantages include that it does not cover symptoms of atypical depression and that it may be less sensitive to change than other scales. Although devised to identify depression in adults in general, the SDS is also used to study depression and cognitive symptoms/disturbances in the elderly. **Center for Epidemiological Studies Depression Scale (CES-D)** This 20-item self-administered screening test, a hybrid of the Zung SDS, the BDI and the Minnesota Multiphasic Personality Inventory Depression Scale (MMPI-D), was designed to assess depression and gravity of depressive symptoms in normal elderly people. [18] A concise 10-item version, whose sensitivity has proved to be only slightly lower than that of the original version, is also available. **Geriatric Depression Scale (GDS and GDS-SF)** This 30-item self-reported tool for assessment of depression in the elderly requires yes or no answers describing patients' feelings on the day of completion. There is a 15-item short form version (GDS-SF) where a score >5 may indicate depression warranting follow-up and >10 usually indicates depression. **General Health Questionnaire (GHQ)**

This 60-item test is an assessment of psychological well-being to detect those likely to have or be at risk for developing psychiatric disorders. It is a measure of the common mental health problems or domains of depression, anxiety, somatic symptoms and social withdrawal. Developed in the 1970s, the GHQ comes in 38 languages. A 28-item version is most often used.

| • Patient Health Questionnaire (PHQ-2 and PHQ-9) |
|---|
| The purpose of the 2-item Patient Health Questionnaire (PHQ-2) is not to establish a final diagnosis or to monitor depression severity, but to screen for depression in a first step approach. Patients who screen positive on the PHQ-2 require further testing and can be evaluated with the PHQ-9, a self-reported 9-question version of the Primary Care Evaluation of Mental Disorders (PRIME-MD). The PHQ-9 is a more detailed test with a scoring system based on duration/severity of particular symptoms. [21] |
| • Cornell Scale for Depression in Dementia (CSDD) |
| This 19-item scale has the best sensitivity (93%) and specificity (97%) for identifying depression in a demented population. In patients with severe cognitive impairments who cannot reliably answer the PHQ-9, the scale can be completed by a caregiver. |
| B. United States Preventive Services Task Force (USPSTF) |
| The USPSTF Recommendation Statement on "Screening for Depression in Adults" (December 2009) states the following: |
| • The USPSTF recommends screening adults for depression when staff-assisted depression care supports are in place to assure accurate diagnosis, effective treatment and follow-up. Grade: B recommendation • The USPSTF recommends against routinely screening adults for depression when staff-assisted depression care supports are not in place. There may be considerations that support screening for depression in an individual |
| patient. Grade: C recommendation USPSTF Grade Definitions after May 2007 |
| |

The U.S. Preventive Services Task Force (USPSTF) has updated its definitions of the grades it assigns to recommendations and now includes "suggestions for practice" associated with each grade. The USPSTF has also defined levels of certainty regarding net benefit. These definitions apply to USPSTF recommendations voted on after May 2007.

| Grade | Definition | Suggestions for Practice |
|-------------|---|---|
| Α | The USPSTF recommends the service. There is high certainty that the net benefit is substantial. | Offer or provide this service. |
| В | The USPSTF recommends the service. There is high certainty that the net benefit is moderate or there is moderate certainty that the net benefit is moderate to substantial. | Offer or provide this service. |
| С | | Offer or provide this service only if other considerations support the offering or providing the service in an individual patient. |
| D | The USPSTF recommends against the service. There is moderate or high certainty that the service has no net benefit or that the harms outweigh the benefits. | Discourage the use of this service. |
| I Statement | Evidence is lacking, of poor quality, or conflicting, and the balance of benefits and harms cannot be determined. | Read the clinical considerations section of USPSTF Recommendation Statement. If the service is offered, patients should understand the uncertainty about the balance of benefits and harms. |

Levels of Certainty Regarding Net Benefit

| Level of Certainty[23] | Description |
|------------------------|--|
| High | The available evidence usually includes consistent results from well-designed, well-conducted studies in representative primary care populations. These studies assess the effects of the preventive service on health outcomes. This conclusion is therefore unlikely to be strongly affected by the results of future studies. |
| Moderate | |

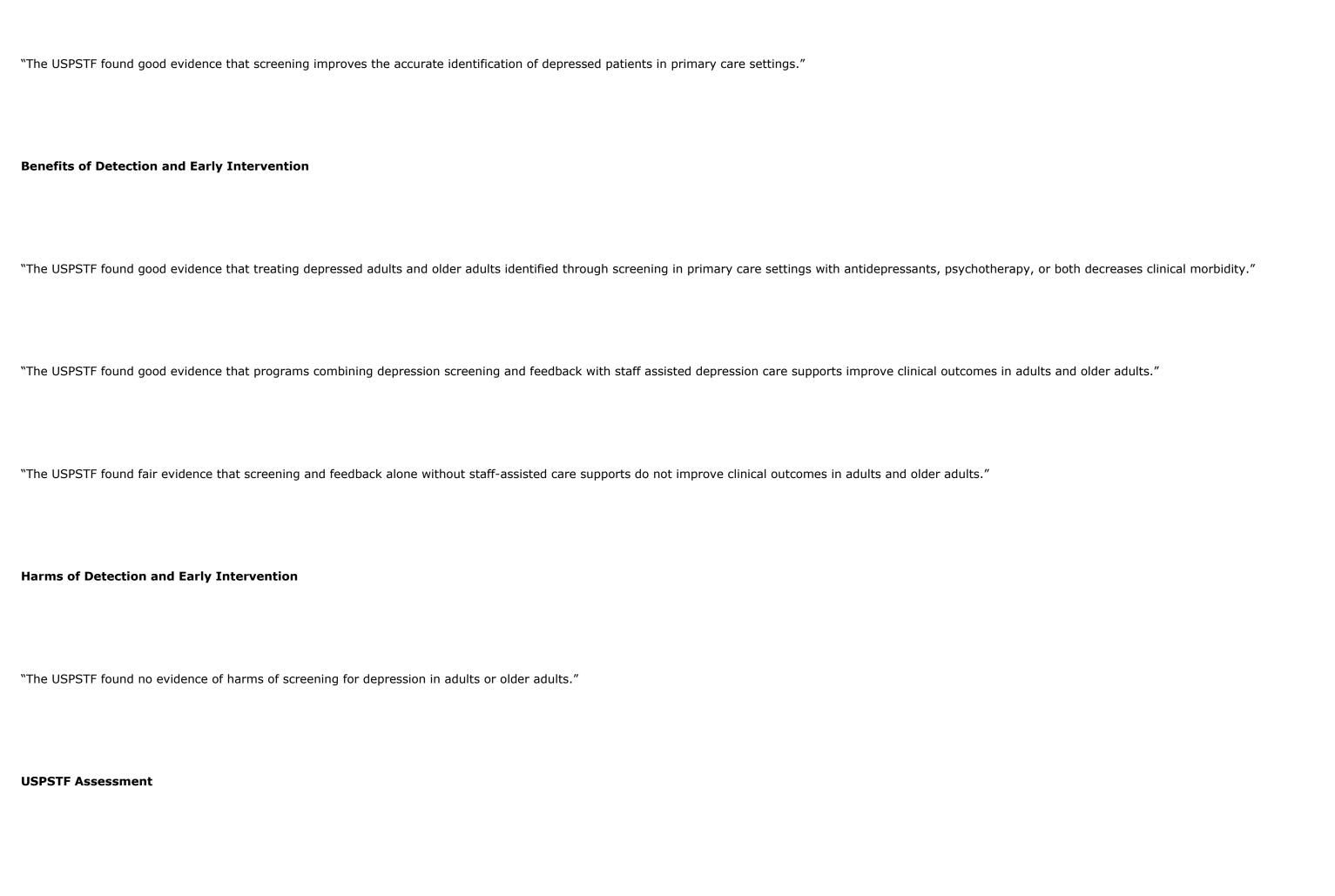
Printed on 4/6/2012. Page 12 of 50

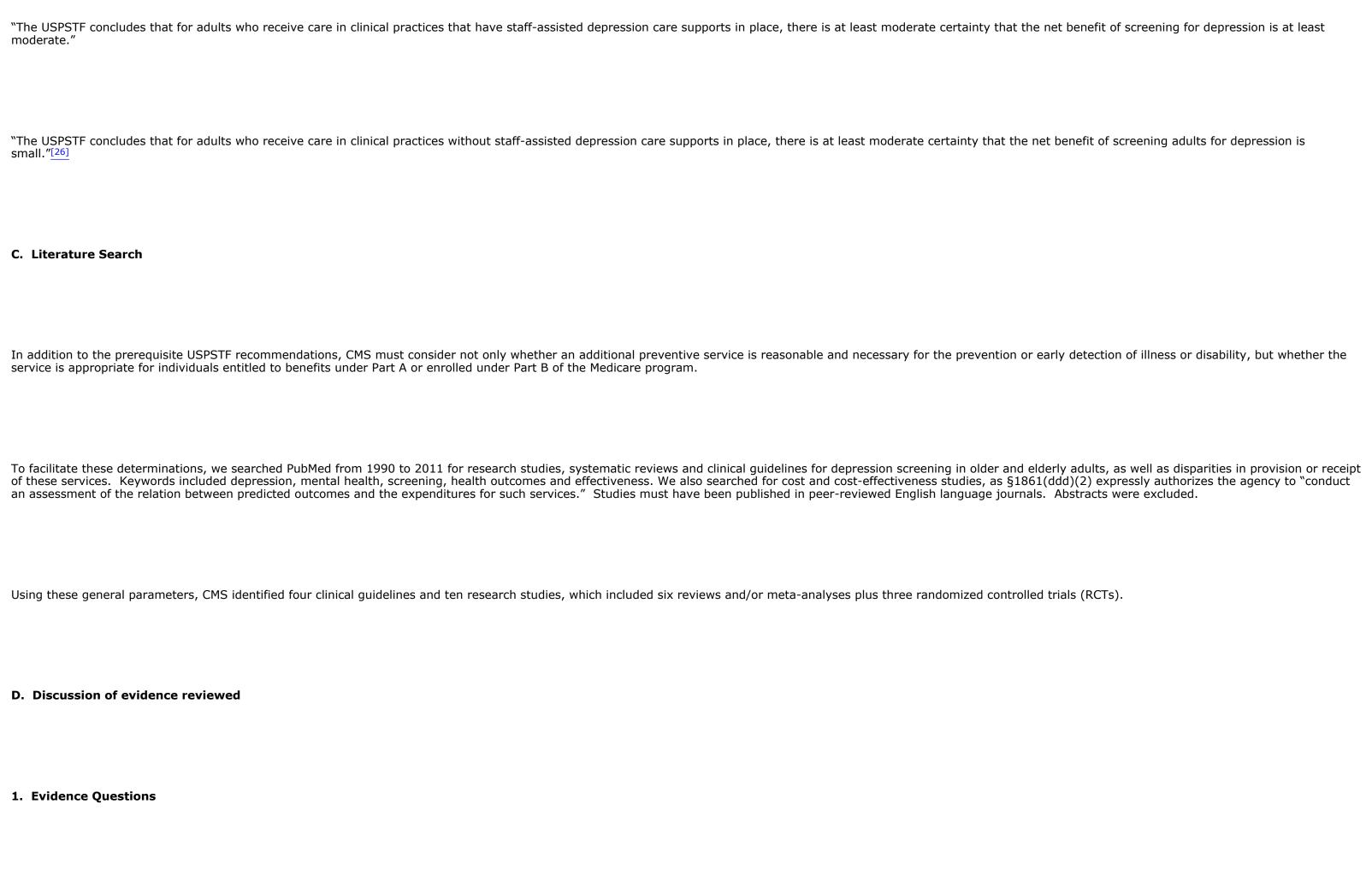
| Level of Certainty[23] | Description |
|------------------------|--|
| | The available evidence is sufficient to determine the effects of the preventive service on health outcomes, but confidence in the estimate is constrained by such factors as: |
| | The number, size, or quality of individual studies. Inconsistency of findings across individual studies. Limited generalizability of findings to routine primary care practice. Lack of coherence in the chain of evidence. |
| | As more information becomes available, the magnitude or direction of the observed effect could change, and this change may be large enough to alter the conclusion. |
| Low | The available evidence is insufficient to assess effects on health outcomes. Evidence is insufficient because of: |
| | The limited number or size of studies. Important flaws in study design or methods. Inconsistency of findings across individual studies. Gaps in the chain of evidence. Findings not generalizable to routine primary care practice. Lack of information on important health outcomes. |
| | More information may allow estimation of effects on health outcomes. |

Inclusion criteria for O'Connor, et al.'s (2009) systematic evidence review- which formed the basis for the USPSTF recommendations – required that all studies be conducted in a general primary care population. For the purposes of this decision memorandum, as defined by the Institute of Medicine (1996), primary care is the provision of integrated, accessible health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community.

Explaining the rationale for its recommendations, the USPSTF further categorized the evidence base and its assessment as follows:

Detection





| Our discussion focuses upon the adequacy of the evidence to draw conclusions about the risks and benefits of screening for depression for Medicare patients. CMS analyzed these questions: |
|--|
| • Is the evidence sufficient to determine that screening for depression is recommended with a grade of A or B by the USPSTF for any indications? |
| • Is the evidence sufficient to determine that screening for depression is reasonable and necessary for the prevention or early detection of illness or disability? |
| • Is the evidence sufficient to determine that screening for depression is appropriate for Medicare beneficiaries? |
| 2. External technology assessments and systematic reviews |
| Health Outcomes |
| Gilbody, et al. (2008) |
| Observing that depression screening and case-finding has been proposed as a simple, quick and cheap method to improve the quality of care, Gilbody and colleagues attempted to establish the effectiveness of screening to improve recognition and management of depression, as well as outcomes of patients with depression. The authors performed a Cochrane systematic review of RCTs in non-mental health settings that included case-finding or screening instruments for depression and conducted an analysis which explored heterogeneity using meta-regression techniques. Sixteen studies with 7.576 patients met inclusion criteria, and results showed that use of screening or case-finding nstruments were associated with modest increase in recognition of depression by clinicians (relative risk [RR] 1.27, 95% confidence interval [CI] 1.02 - 1.59). Questionnaires, when administered to all patients and results given to clinicians irrespective of baseline score, had no impact on recognition (RR 1.03, 95% CI 0.85 - 1.24). Screening or case-finding increased the use of any intervention by a relative risk of 1.30 (95% CI 0.97 - 1.76). There was no evidence of influence on prescription of antidepressant medications (RR 1.20, 95% CI 0.87 - 1.66). Seven studies provided data on outcomes of depression, and no evidence of effect was found (standardized mean difference -0.02, 0.5% CI -0.25 - 0.20). Gilbody, et al. concluded that if used alone, case-finding or screening questionnaires for depression appeared to have little or no impact on detection and management of depression by clinicians. The authors emphasized that recommendations to adopt depression screening using standardized questionnaires without organizational enhancements are not justified. [27] |
| Screening Tools |

| Sharp and Lipsky (2002) |
|---|
| Sharp and Lipsky conducted a review of screening measures for use in primary care settings. The authors observed that identifying patients with depression can be difficult in busy practices where time is limited, but stated that certain screening measures may help physicians diagnose the disorder. Sharp and Lipsky explained that depression screening measures do not diagnose depression, but rather provide an indication of the severity of symptoms and assess that severity within a given time period of, e.g., within the past 7-14 days. Although screening tools have unique scoring systems, higher scores generally reflect more severe symptoms, and measures have a statistically predetermined cutoff score at which symptoms are considered significant. Patients who score above predetermined cut-off levels should be interviewed more specifically for a diagnosis of a depressive disorder and, as clinically indicated, be treated within the primary care physician's scope of practice or referred to a mental health subspecialist. Sharp and Lipsky further suggested that targeted screening in high-risk patients – those with chronic diseases, pain, unexplained symptoms, stressful home environments, social isolation or the elderly – may provide an alternative approach to better identify depressed patients. [28] |
| Colasanti, <i>et al.</i> (2010) |
| Colasanti and colleagues performed a systematic review of screening tools for the evaluation of depression in the elderly. Since symptoms of depression in the elderly can be difficult to identify and interpret, diagnosing depression can be difficult in the elderly, especially when concomitant pathologies mask signs and symptoms of depression. The authors categorized rating scales and questionnaires for depression as either hetero-evaluation scales administered by an assessor or as self-rating scales taken by the patients themselves. Hetero-evaluation tools that were compared and contrasted included the Hamilton Depression Rating Scale (HAM-D or HDRS), the Cornell Scale for Depression in Dementia (CSDD), the Depressive Signs Scale (DDS), the Post-Stroke Depression Rating Scale (PSDRS), non-verbal evaluation scales such as the Aphasic Depression Rating Scale (ADRS) and the Visual Analogue Mood Scale (VAMS), the Montgomery-Asberg Depression Rating Scale (MADRS) and the Retardation Rating Scale (RRS) focusing on psychomotor slowing. Self-rating scales that were evaluated included the Beck Depression Inventory (BDI), Zung Self-Rating Depression Scale (SDS), the Geriatric Depression Scale (GDS) and the Center for Epidemiological Studies Depression Scale (CES-D). Colasanti, et al. concluded that there is a need to standardize the hetero-evaluation and self-rating scales used to differentiate between normal and depressed geriatric patients. [29] |
| 3. Internal technology assessment |
| Health Outcomes |
| Magruder-Habib, et al. (1990) |
| |

| Magruder-Habib and colleagues conducted an RCT to assess whether results of the Zung Self-Rating Depression Scale (SDS), when provided to physicians, could influence the recognition and treatment of depression patients in a |
|---|
| primary care setting. Their trial used a staged screening approach and consisted of randomly informing physicians (N = 48 patients) or not informing physicians (N = 52 patients) of the depression status of male veterans (mean age = |
| 60 years) screening positive for depression on both the SDS (index score of ≥ 50) and a DSM-III screen. The patients (not physicians) were randomized, and patients were the unit of analysis. Only SDS scores were fed back to the |
| physicians. Of 112 potential study patients, 12 scored so high (\geq 75) on the SDS that they were excluded from randomization, and their physicians were immediately informed of the screening results. The remaining patients (N = |
| 100) were followed for 12 months to assess depression status. The main outcomes of interest were the recognition of depression (either specific notation in chart, listing of depressive symptoms or referral to mental health services) |
| and the treatment of depression (antidepressant prescription, mental health consultation, mental health clinic visit or counseling by a physician) determined by audit of patients' medical records. Results showed that physician feedback |
| of SDS scores of previously unrecognized depressed patients significantly increased recognition (56.2% versus 34.6%) and treatment (56.2% versus 42.3%) of depression over the 12-month study period. This was especially true for |
| patients with high somatic (P < 0.05) or low psychologic symptoms of depression (P < 0.05). In other words, patients with high somatic complaints and symptoms suggesting organic diseases, or patients with low psychological |
| complaints, were most likely to be missed. Magruder-Habib, et al. concluded that routine use of a screening instrument such as the SDS improves physician recognition of depression in primary care. [30] |
| |

Kales and Valenstein (2002)

Acknowledging that late-life depression is a heterogeneous syndrome, Kales and Valenstein stated that while depression in elderly patients is highly treatable, patient factors interact with physician factors to complicate overall clinical management of depression. Three confounding patient-level factors were reviewed – medical illness, neuropsychiatric comorbidity including concurrent dementia and anxiety, plus race – which impact not only the screening, diagnosis and treatment of depression, but also outcomes and health utilization in late-life depression. Medical illness, for instance, is common in depressed elderly patients, with 88% diagnosed with at least one significant medical disorder and 48% having three or more medical disorders. Depression in older adults with medical illness, the authors noted, potentially delays recovery by decreasing motivation and compliance, interfering with rehabilitation and prolonging hospitalizations. Moreover, depression is associated with greater use of medical services and prolonged recovery from hip fracture and stroke. Kales and Valenstein concluded that health outcomes and services research indicate that especially medical comorbidity affects whether late-life depression is appropriately detected and treated. The authors emphasized such factors must be included in a future mental health services research agenda in order to create best -practice models, guidelines and tailored interventions to improve depression screening and detection, as well as diagnosis and treatment in elderly primary care patients.

Solberg, et al. (2005)

Solberg and colleagues described in considerable detail the main components of a systematic approach to care management in follow-up and follow-through of depressed patients in primary care. Having reviewed earlier trials of depression care, the authors stated that key care concepts demonstrated to be effective include: 1) care management by a nonphysician working with the primary care physician; 2) planned collaborative care between physicians and mental health clinicians; 3) education and support of patients for self-management, and 4) attention to patient preferences. According to the authors, a systematic care management system assumes that there is some type of team that includes a nonphysician (usually a nurse) with the ability to provide patient self-management support, not mental health counseling, in a closely integrated way with the primary physician. Their description assumes that all physicians within a clinic system have agreed on a depression guideline such as from the <u>Institute for Clinical Systems Improvement</u>, as well as use of a patient questionnaire such as the PHQ-9 to validly assess presence of depression during initial screening or appraisal and in follow-up visits to measure severity and outcomes. [32]

Screening Tools

Williams, et al. (1999)

At three university-affiliated and one community-based medical clinic, Williams and colleagues conducted an RCT to evaluate the use of two case-finding instruments as compared to usual care. Consecutive patients were randomly assigned to be asked a single question about mood ("Have you felt depressed or sad much of the time in the past year?"), to fill out the 20-item validated Center for Epidemiologic Studies. Process of Care was assessed using Likert Scales. At 3 months, depressed and nondepressed patients were re-assessed for DSM-III-R disorders and symptom counts. Of 1,083 patients approached, 969 patients consented to screening and were assigned to a single question (n = 330, mean age = 58), 20-item questionnaire (n = 323, mean age = 59) or usual care. No substituting the part of the 863 participants, patients were present in 863 (89%) patients, and major depression, dysthymia or minor depression was present in 13%. Of the 863 participants, patients were predominately female (750% with personal income < \$16,800). Eleven percent were making their first visit to the study physician, and medical comorbidity was moderate, with a median Duke Severity of Illness Score of 34 and a mean of three chronic medical conditions. Results showed that both instruments (single question or 20-item CES-D screen) were sensitive, but the 20-item CES-D questionnaire was more specific than the single question (750% versus 660%, P = 0.03). Case-finding with the 20-item questionnaire or single question modestly increased depression recognition, 30/77 (390%) compared with 30/77 (390%) in usual care (90/777 (390%) in usual care (90/777 (390%) in usual care (90/777 (390%) compared with 30/777 (390%) compared with 30/777 (390%) in usual care (30/7777 (390%) compared with 30/7777 (390%) in usual care (30/77777 (390%) compared with 30/77777 (390%) compared with 30/77777 (390%) compared with 30/77777 (390%) compared with 30/77777 (390%) compared with 30/777777 (390

Scogin and Shah (2006)

Scogin and Shah reviewed evidence supporting screening older adults for depression in primary care setting, as well as barriers to recognition of depression and screening instruments utilized for geriatric depression. Although depression screening has been shown to improve recognition, the authors noted past reviews have been mixed about whether screening improves depression outcomes in primary care patients, and they posited that the critical element appears to be the nature of the treatment provided following screening. Potential barriers to systematic depression screening included time required, negative patient reaction and patient stigmatization according to the physicians surveyed, as well as older adults' concerns regarding confidentiality, plus older women's concerns about intrusiveness and lack of appropriateness of screening. Based on the authors' own survey of older adults' attitudes toward screening, there may be less resistance to broaching the depression topic than currently believed. Scogin and Shah stated that the Geriatric Depression Scale – Short Form (GDS–SF) and the Center for Epidemiologic Studies Depression Scale (CES–D) likely have the greatest potential. Primary care older adults, they noted, found the GDS–SF "acceptable and neither too difficult nor stressful, but an advantage of the CES–D is that it includes somatic items like "appetite" and "sleep" that providers likely inquire about as part of their routine assessment. Also, since the CES–D has been validated with adults, primary care offices would not have to use a separate screen for older adults. Scogin and Shah concluded that, when taken together, existence of validated screening tools, probable willingness on the part of older adults to be screened and efficacious care models enable improved depression care.

Lamers, et al. (2008)

Lamers and colleagues assessed the psychometric properties of the PHQ-9 as a screening tool for depression in elderly patients with diabetes and chronic obstructive pulmonary disease (COPD) without known depression. Diabetic and COPD patients aged >59 years were selected from 89 general practices. Mean age was 71.4 years (SD 6.9), 51.2% of patients had DM, 51.8% were male and 40.1% had primary education only. PHQ-9 depressed patients more often had only received primary education compared to nondepressed patients (41.7% versus 27.0%, P = 0.001); and in the total sample (N = 713), 19.3% had any depressive disorder (ADD) and 10.7% had major depressive disorder (MDD) according to the PHQ-9. Criterion validity, using the Mini International Neuropsychiatric Interview to diagnose MDD and ADD as diagnostic standard, was evaluated (N = 713 patients) for both summed and algorithm-based PHQ -9 score. Correlations with quality of life and severity of illness were calculated to assess construct validity, and in addition to the validity study, a test-retest study of the PHQ-9 was conducted (N = 105 patients) to evaluate its reliability. Results showed that Cohen's kappa for the algorithm-based score was 0.71 for MDD and 0.69 for ADD. Correlation for test-retest assessment of the summed score was 0.91. The algorithm-based score had low sensitivity and high specificity, but both sensitivity and specificity were high for the optimal cut-off point of 6 on the summed score for ADD (sensitivity 95.6%, specificity 81.0%). Correlations between the summed score and the quality of life and severity of illness were acceptable. Lamers, et al. concluded that algorithm-based scoring of the PHQ-9 is not advisable for screening purposes in this elderly population because sensitivity is low, i.e., in more than half of cases, and COPD. In those patients scoring above the cut-off point for ADD or MDD, a more thorough mental health diagnostic examination is appropriate. [35]

Cost-Effectiveness

Simon, et al. (2007)

Simon and colleagues evaluated incremental cost and cost-effectiveness of systematic depression treatment for older diabetics. Their RCT (the Pathways Study) compared a multicomponent depression treatment program with care as usual in nine primary care clinics of a group-model prepaid health plan. A two-stage population-based depression screening program, utilizing the PHQ-9 plus telephone screening two weeks later for those with a PHQ-9 score ≥ 10 , identified diabetics with concurrent depressive disorder. A total of 329 participants (88% of those invited) attended a baseline visit and agreed to be randomized. Baseline characteristics showed the mean age \pm standard deviation was 58 ± 12 years and 57 ± 12 years for, respectively, the intervention group and usual care patients, including 35% female patients. Three specialized nurses delivered a 12-month, stepped-care program beginning with problem-solving treatment psychotherapy or structured antidepressant pharmacotherapy. Subsequent treatment combining psychotherapy and medication, medication adjustments and specialty referral was adjusted according to clinical response. Main outcome measures were depressive symptoms assessed by blinded telephone assessments at 3, 6, 12 and 24 months. Health service costs were assessed unulticomponent depression management accumulated a mean of 61 additional depression-free days (95% confidence interval [CI], 11 to 82 days) adjusted for age, sex and baseline depression, and had outpatient health services costs that averaged \$314 less (95% CI, \$1007 less to \$379 more) compared to patients in usual care. Where an additional depression-free day was valued at \$10, net economic benefit of the systematic program was \$952 per patient treated (95% CI, \$244 to \$1660). Simon, et al. concluded for adults with diabetes and depression, systematic treatment significantly increases time free of depression and has economic benefits from the health plan perspective. The authors believed that depression screening and systematic depressi

| 4. | Medicare E | vidence D |)evelopmen | t & (| Coverage A | Advisorv | Committee (| (MEDCAC) |
|----|------------|-----------|------------|-------|------------|----------|-------------|----------|
| | | | | | | | | |

CMS did not hold a MEDCAC meeting on this topic.

5. Evidence-Based Clinical Guidelines

United States Preventive Services Task Force (USPSTF) 2009 (see also Section VII.B. above)

<u>Clinical Summary of USPSTF Recommendation</u> intended for use by primary care clinicians:

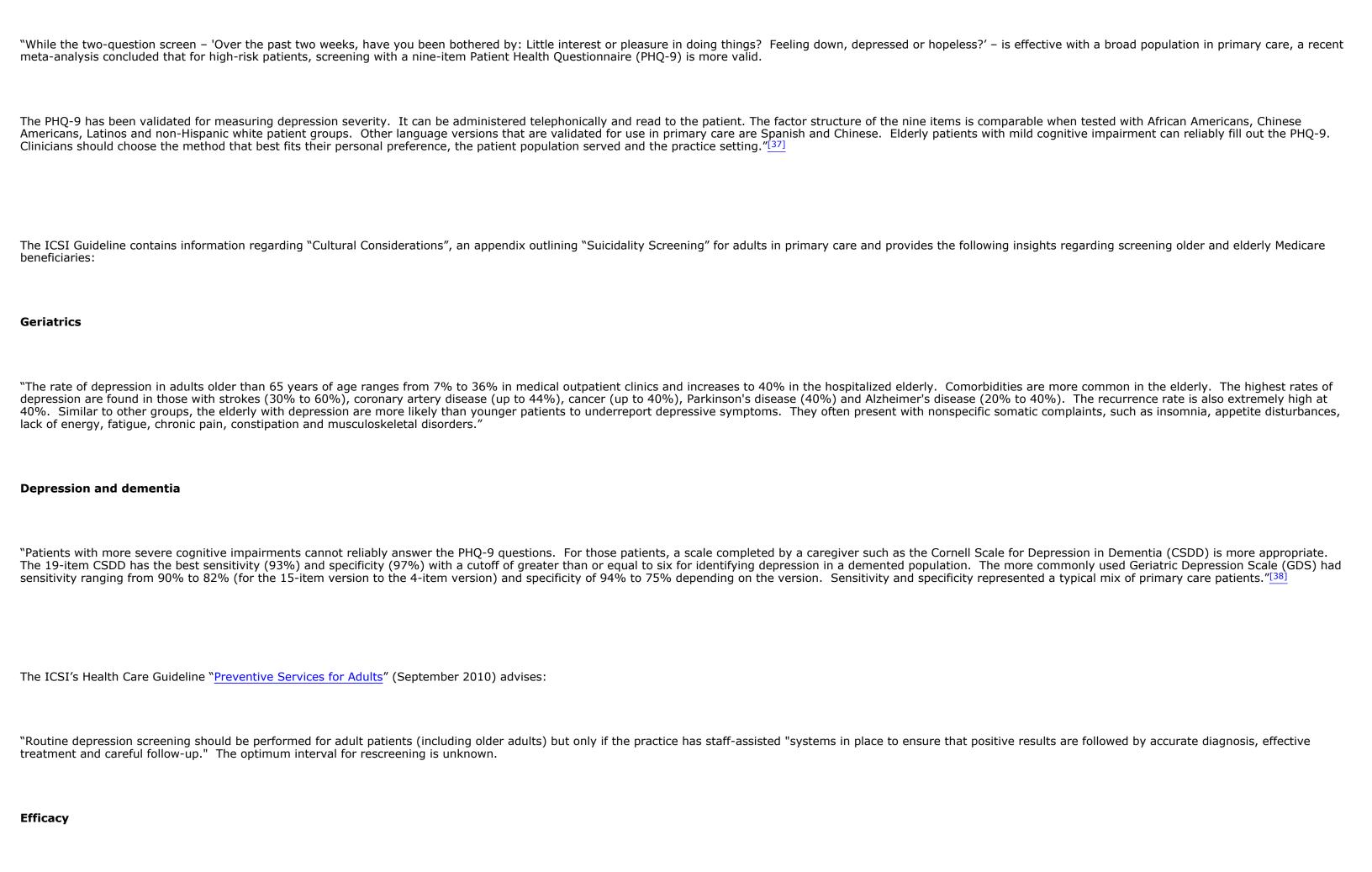
| Population | Nonpregnant adults 18 years or older |
|------------|--------------------------------------|
| | |

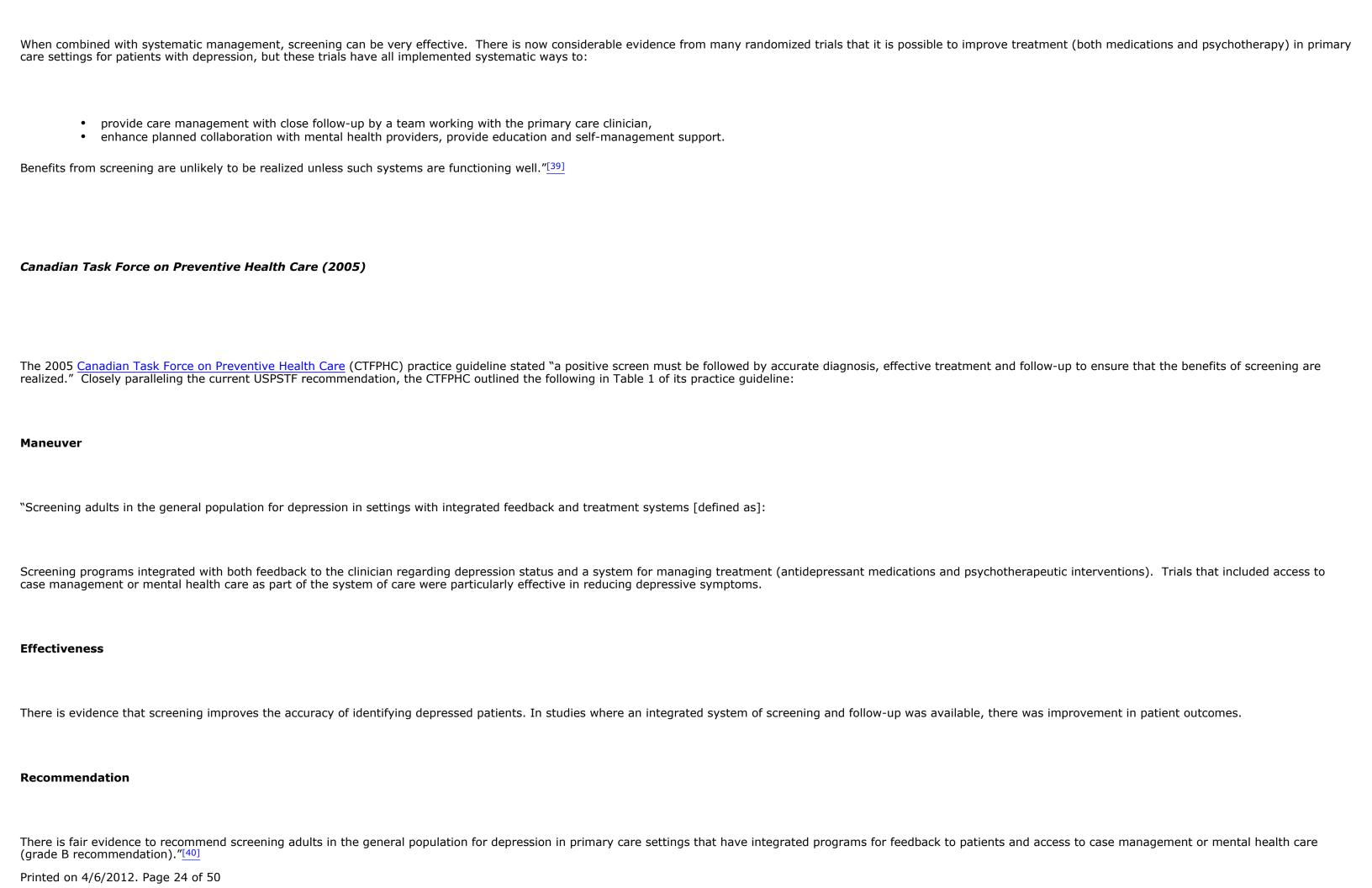
| Population | Nonpregnant adults 18 | years or older |
|-------------------------------|--|--|
| Recommendation | | Do not routinely screen when staff-assisted depression care supports are not in place. Grade: C |
| Risk Assessment | Persons at increased risk for depression are considered at risk throughout their lifetime. Groups substance misuse, persons with a family history of depression, persons with chronic medical diswomen are at increased risk compared with men. However, the presence of risk factors alone of | eases, and persons who are unemployed or of lower socioeconomic status. Also, |
| Screening Tests | Simple screening questions may perform as well as more complex instruments. Any positive screening test result should trigger a full diagnostic interview using standard diagnostic criteria. | |
| Timing of Screening | The optimal interval for screening is unknown. In older adults, significant depressive symptoms are associated with common life events, including medical illness, cognitive decline, bereavement and institutional placement in residential or inpatient settings. | |
| Balance of Harms and Benefits | | Limited evidence suggests that screening for depression in the absence of staff-assisted depression care does not improve depression outcomes. |
| Suggestions for Practice | "Staff-assisted depression care supports" refers to clinical staff that assists the primary care clin management or mental health treatment. | nician by providing some direct depression care and/or coordination, case |

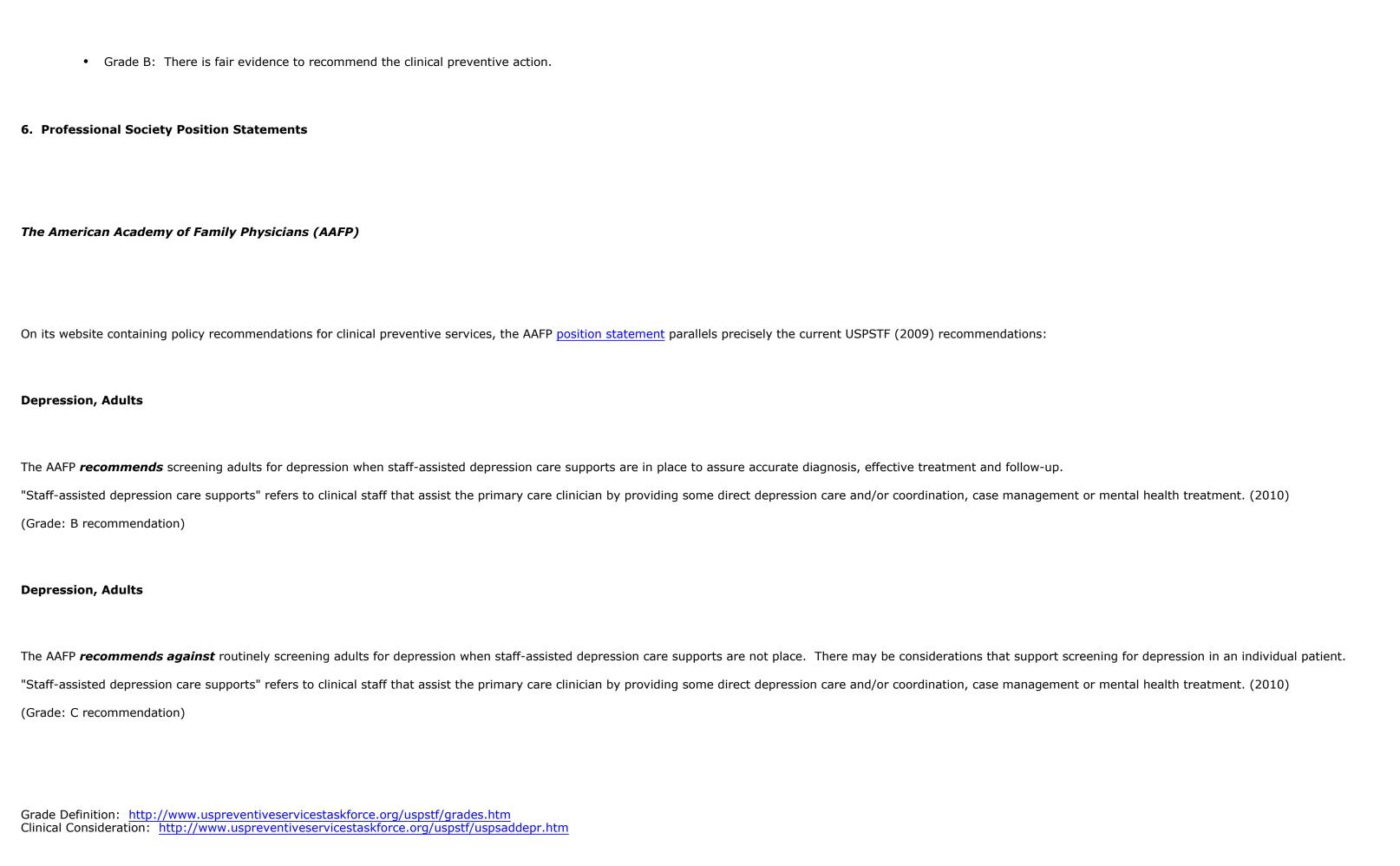
Veterans Affairs/Department of Defense Clinical Practice Guideline (May 2009)

The 2009 Clinical Practice Guideline for the Management of Major Depressive Disorder (MDD) for the Department of Veterans Affairs (VA) and Department of Defense (DoD) was developed to reduce current practice variation and provide facilities with a structured framework to help improve patient outcomes, as well as to provide evidence-based recommendations to assist providers and their patients in decision-making.

| Notable among key elements addressed by this Guideline is that: "Annual screening for MDD is recommended in the primary care setting as an important mechanism for reducing morbidity and mortality." |
|--|
| According to the VA/DoD Clinical Practice Guideline (2009), "Despite its high prevalence and substantial economic impact, depression often goes unrecognized or undertreated. Depressed patients have increased disability, healthcare utilization, and mortality from suicide and other causes, as well as reduced productivity and health-related quality of life." |
| "Brief screens (e.g., PHQ-2) appear to perform comparably to longer screens (e.g., Geriatric Depression Scale [GDS] or Patient Health Questionnaire [PHQ-9]). Although depression questionnaires may perform more poorly in adults > 75 years, the performance is adequate to improve initial recognition of depression. Patients with severe chronic medical illness are at higher risk for depression than the average patient seen in primary care" |
| VA/DoD Recommendations: |
| • The Patient Health Questionnaire (PHQ) 2-item should be completed annually by all patients seen in primary care settings. This was given an A rating by the VA/DoD. A VA/DoD A rating is "a strong recommendation that the clinicians provide the intervention to eligible patients." Therefore VA/DoD found that the intervention improves important health outcomes and concludes that benefits of the intervention substantially outweigh harm". |
| • Patients who screen positive on the Patient Health Questionnaire (PHQ) 2-item should have both a documented assessment using a quantitative questionnaire to further assess whether the patient has sufficient symptoms to warrant a diagnosis of clinical major depression and a full clinical interview that includes evaluation for suicide risk. This was given a B rating by the VA/DoD. A VA/DoD B rating is "a recommendation that clinicians provide (the service) to eligible patients." Therefore VA/DoD found at least fair evidence that the intervention improves health outcomes and concludes that benefits of the intervention outweigh harm". |
| The Institute for Clinical Systems Improvement (ICSI) 2010 |
| According to the ICSI's Health Care Guideline "Major Depression in Adults in Primary Care" (May 2010), an evidence-based document based on the best care that has evolved to include information on best-practice systems for implementation, the primary objective of depression screening is "to use a standardized instrument that will quantify and document future progress, including response and remission rates". |





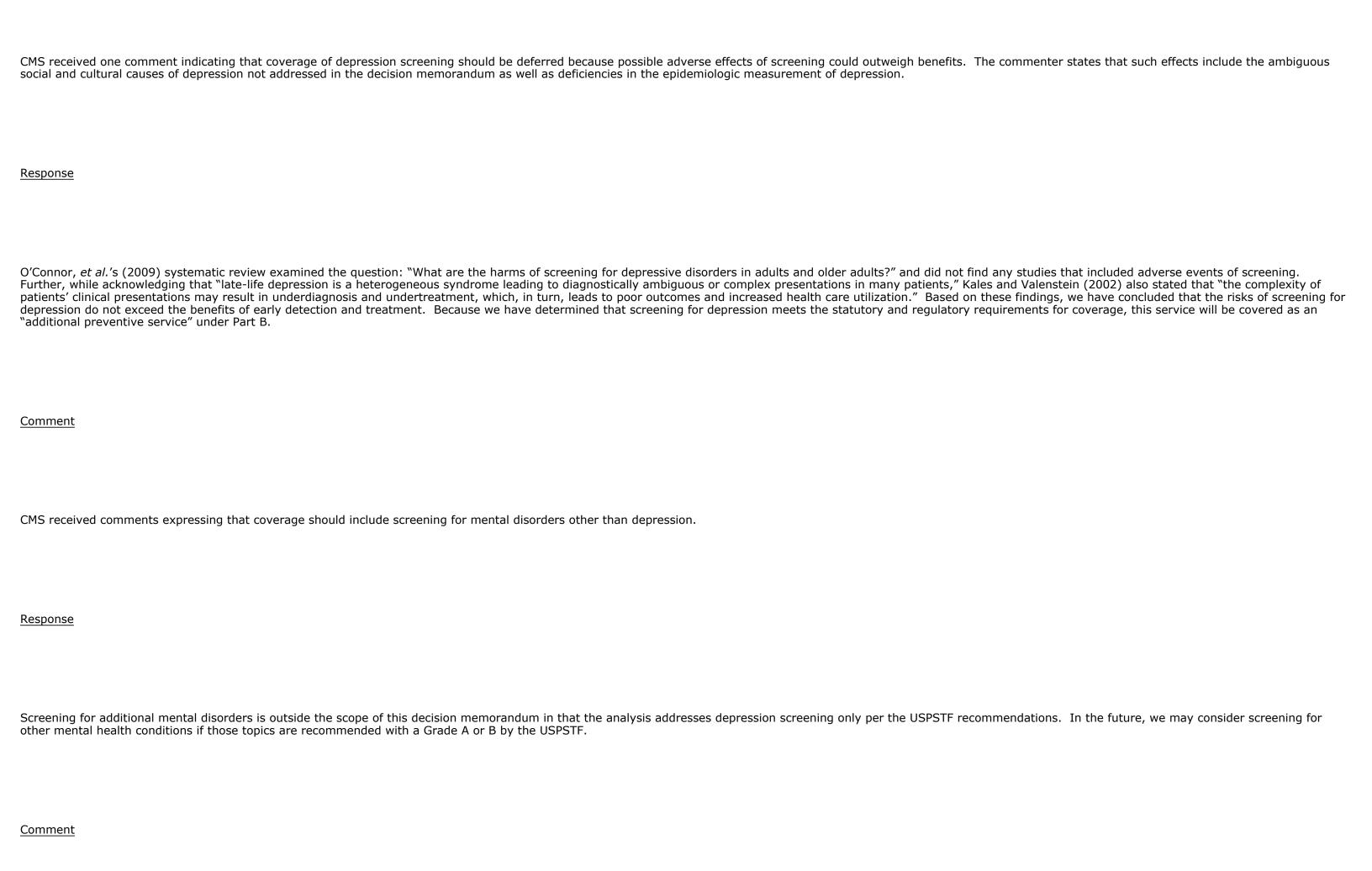


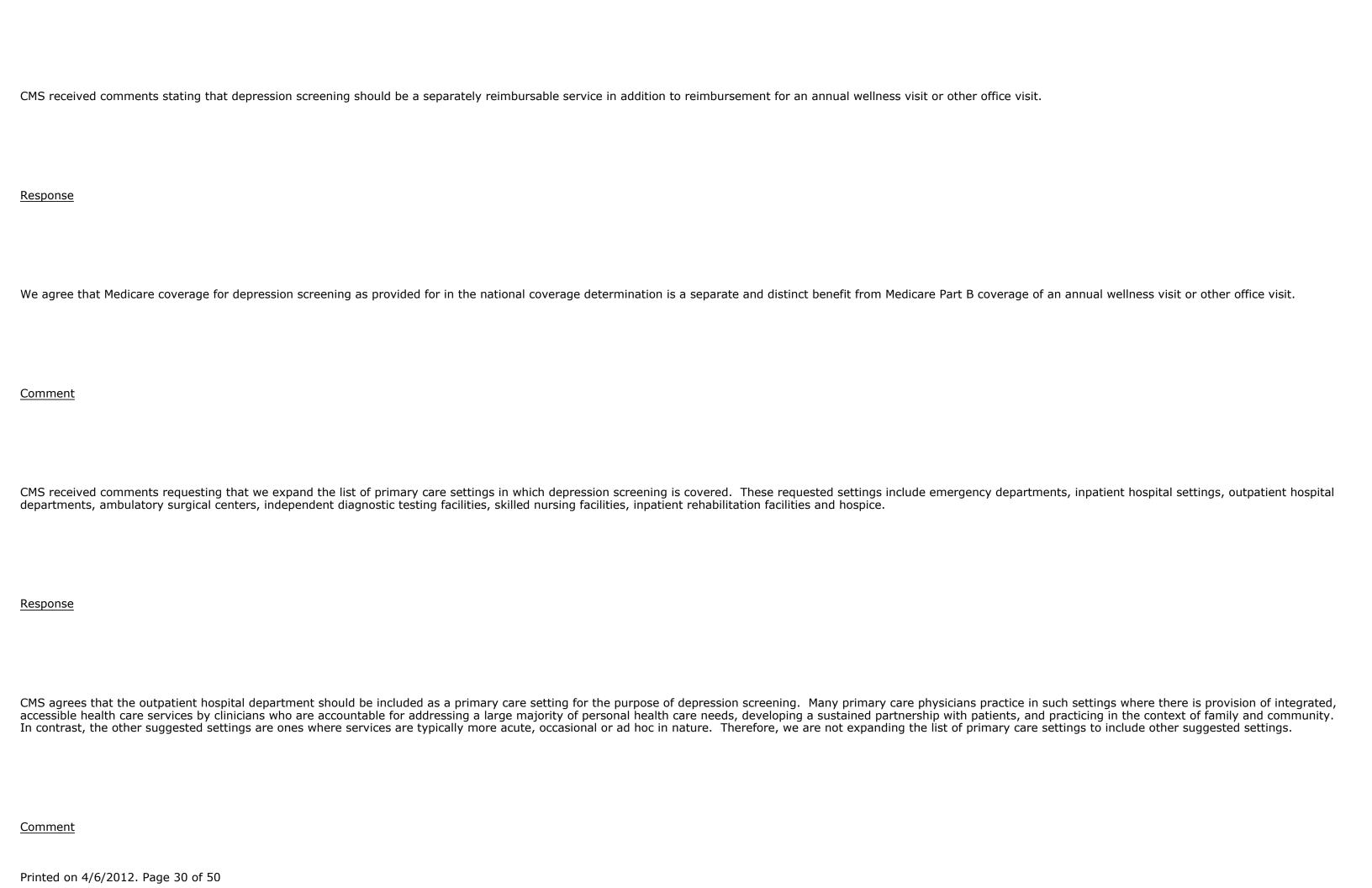
| The American College of Preventive Medicine (ACPM) |
|---|
| In October 2009, the ACPM published online the following: |
| Position Statement Position Statement |
| "The American College of Preventive Medicine (ACPM) maintains that primary care providers should screen all adults for depression and that all primary care providers should have systems in place, either within the primary care setting itself or through collaborations with mental health professionals, to ensure the accurate diagnosis and treatment of this condition. The earliest and best opportunities to identify depression are in the clinics of primary care providers. Thus, the ACPM supports the recommendations of the U.S. Preventive Services Task Force (USPSTF) and further suggests that all primary care practices should have such systems of care in place." |
| The American Diabetes Association (ADA) |
| The ADA's position statement on "Standards of Medical Care in Diabetes" (January 2010) offered the following recommendations regarding psychosocial assessment and care: |
| Assessment of psychological and social situation should be included as an ongoing part of the medical management of diabetes. |
| • Psychosocial screening and follow-up should include, but is not limited to, attitudes about the illness, expectations for medical management and outcomes, affect/mood, general and diabetes-related quality of life, resources (financial, social and emotional) and psychiatric history. |
| • Screen for psychosocial problems such as depression and diabetes-related distress, anxiety, eating disorders and cognitive impairment when self-management is poor. |

| 7. Public Comments |
|--|
| A. Public Comment Period 3/3/2011 – 4/1/2011 |
| During the initial 30-day public comment period, CMS received 22 comments, all of which supported Medicare coverage of screening for depression. Those who self-identified when submitting comments came from organizations serving the elderly, physician groups, industry, psychologists, educators and other healthcare professionals. Of these commenters, 14 spoke to treatment for depression with regular re-screening at various intervals (i.e., longitudinal tracking) to help ascertain treatment effectiveness. |
| For commenters expressing a preference for depression screening instruments in the primary care setting, the following tools were mentioned: the Patient Health Questionnaire-9 (PHQ-9), the Patient Health Questionnaire-2 (PHQ-2) the M-3 Checklist, the Geriatric Depression Scale-15 (GDS-15) and the Center for Epidemiologic Studies Depression Scale (CES-D). |
| A comment from the American Psychiatric Association (APA) supports the USPSTF Grade B recommendations, encourages annual screening by qualified clinicians with referral to a psychiatrist when primary care resources are lacking and states that screening should be performed regardless of whether staff-assisted depression care supports are in place. The APA further commented that it is critically important for physicians, especially those providing primary care resources are lacking and states that screening should be performed regardless of whether staff-assisted depression care supports are in place. The APA further commented that it is critically important for physicians, especially those providing primary care resources are lacking and states that screening should be performed regardless of whether staff-assisted depression care supports are in place. The APA further commented that it is critically important for physicians, especially those providing primary care resources are lacking and states that screening should be performed regardless of whether staff-assisted depression care supports are in place. The APA further commented that it is critically important for physicians, especially those providing primary care resources are lacking and states that screening should be performed regardless of whether staff-assisted depression care supports are in place. The APA further commented that it is critically important for physicians, especially those providing primary care resources are lacking and states that screening by qualified clinicians with referral to a psychiatric than the primary care resources are lacking and states that screening by qualified clinicians with referral to a psychiatric than the primary care resources are lacking and states that screening by qualified clinicians with referral to a psychiatric than the primary care resources are lacking and states that screening by qualified clinicians with referral to a psychiatric than the primary care resources are lacking and screening by qualified cl |
| A comment from the American Medical Association (AMA) supports views expressed in the APA comment. The AMA additionally states that it has developed measures regarding depression screening, diagnostic evaluation, appropriat treatment and coordination of care that are undergoing formal review. |
| The 22 comments can be reviewed in their entirety on our website at: <a details="" href="https://www.cms.gov/medicare-coverage-database/details/nca-view-public-comments.aspx?NCAId=251&ExpandComments=n&ver=5&NcaName=Screening+for+Depression+in+Adults&bc=ACAAAAAIAAA&#Results <a href=" https:="" medicare-coverage-database="" nca-view-public-comments.aspx?ncaid="251&ExpandComments=n&ver=5&NcaName=Screening+for+Depression+in+Adults&bc=ACAAAAAIAAA&#Results</a" www.cms.gov=""> |
| B. Public Comment Period 7/19/2011 - 08/18/2011 |

Printed on 4/6/2012. Page 27 of 50

| During the second 30-day comment period, CMS received 35 comments, and all but one comment strongly supported Medicare coverage of screening for depression. Among the commenters who self-identified when submitting comments were organizations serving the elderly, Medicare beneficiaries and physician groups. Those also strongly in favor of depression screening included professional societies, industry, psychologists, educators and other healthcare professionals. These comments addressed the relevance of USPSTF Grade B and Grade C recommendations, screening frequency and use of various depression screening instruments. Comments also addressed reimbursement for depression screening services and definition of primary care settings. The following is a summary of comments received and our responses. |
|---|
| The 35 comments can be viewed in their entirety on our website at: https://www.cms.gov/medicare-coverage-database/details/nca-view-public-comments.aspx?NCAId=251&ExpandComments=n&ver=5&NcaName=Screening+for+Depression+in+Adults&bc=ACAAAAAAIAAA&#Results</th></tr><tr><td>Comment</td></tr><tr><td>Some comments stated that screening should be covered even in the absence of staff-assisted depression care supports in the primary care setting.</td></tr><tr><td>Response Control of the Control of t</td></tr><tr><td>We are not able to adopt the commenters' suggestion to expand coverage to include settings that do not have staff-assisted supports in the primary care settings. The USPSTF grade B recommendation specifically applies only when 'staff-assisted depression supports" are in place. In fact, the USPSTF assigned a grade C and recommends against routinely screening adults for depression when staff-assisted depression supports are not present. We do not have authority under the statute to cover services that have a USPSTF grade C recommendation. If a primary care setting has in place an established relationship whereby staff-assisted depression supports are furnished in a timely mannular per se, we believe that the requirement is satisfied.</td></tr><tr><td><u>Comment</u></td></tr></tbody></table> |



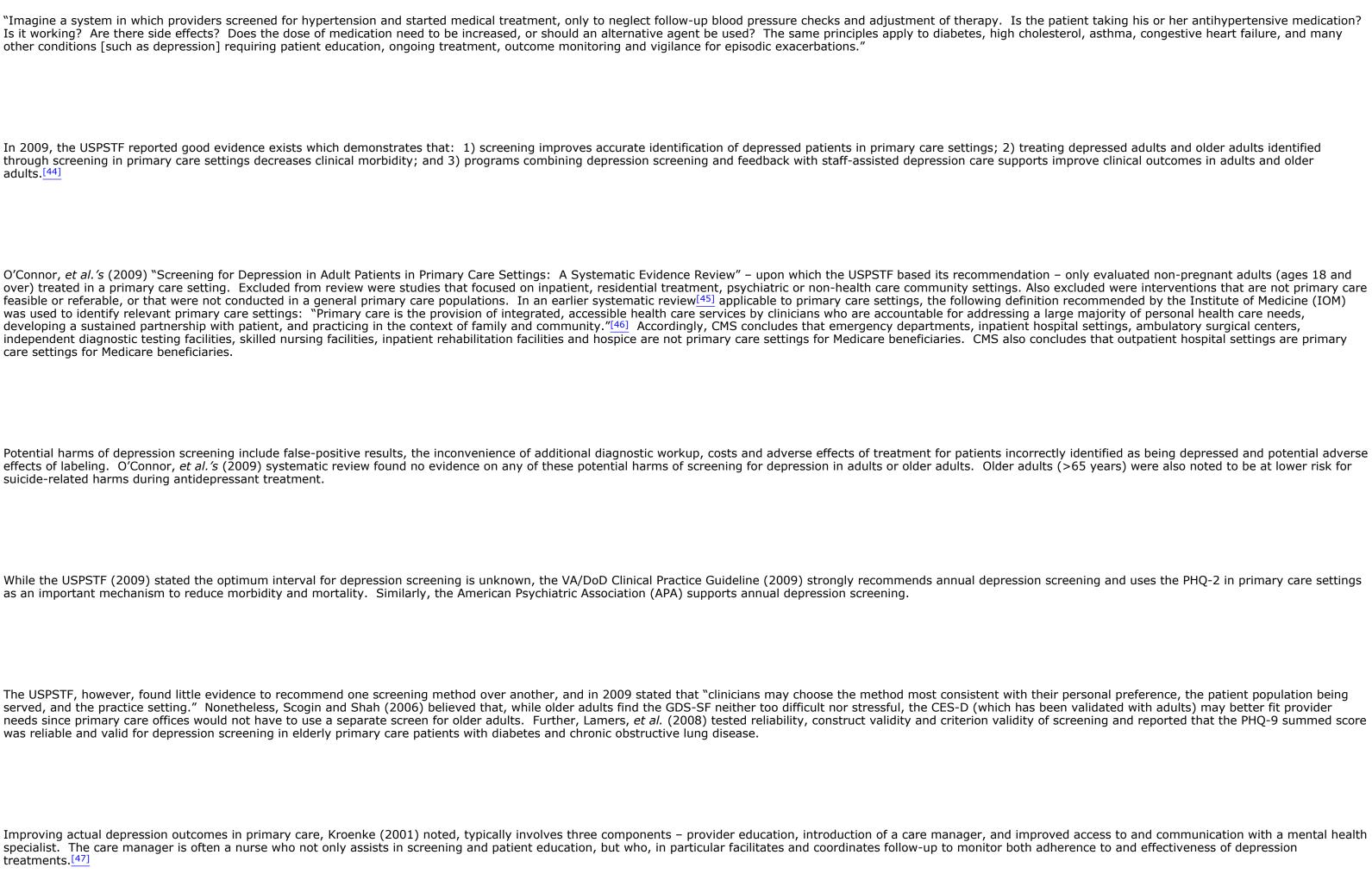


| Comments were received expressing that depression screening should be covered more than once per year. | |
|--|--|
| Response Control of the Control of t | |
| CMS appreciates these comments. Based on the totality of the current evidence, it is believed that annual screening is expected to increase patient awareness of depression and may prompt patients to seek a diagnostic evaluation if they develop symptoms suggestive of depression during the year (which would not be screening). In the absence of definitive evidence to choose another interval, we believe that annual screening is appropriate and will facilitate the integration of this benefit into an efficient overall preventive strategy. We also believe that annual screening will raise beneficiary awareness of the signs and symptoms of depression and signal the physician's interest in this topic and make it easier for beneficiaries to reach out to their physicians for a diagnostic evaluation on an as needed basis between scheduled screenings. In addition, the VA/DoD Clinical Practice Guideline (2009) strongly recommends annual depression screening as an important mechanism to reduce morbidity and mortality. Similarly, the American Psychiatric Association (APA) supports annual depression screening. | |
| <u>Comment</u> | |
| Several commenters recommended that specific depression screening tools be used. | |
| Response Control of the Control of t | |
| CMS disagrees. The USPSTF recommendation states that clinicians may choose the screening method most consistent with their personal preference, the patient population being served and the practice setting. CMS agrees with the USPSTF position. This decision does not limit coverage based upon the use of any particular screening instrument or method. | |
| Comment | |

| Several commenters requested that depression screening be covered when performed by any primary care specialty as defined in the Social Security Act or by any state-licensed health professional. |
|--|
| Response |
| |
| CMS expects that primary care settings, as described in this decision, are generally staffed by primary care specialties. However, we recognize that this is not always the case. Although both the USPSTF grade B recommendation statement and the evidence we reviewed for depression screening suggest that the service is most effective when furnished in primary care settings, the USPSTF recommendation does not addresses the specialties or qualifications for those who furnish the service. As such, we have decided not to address in this decision the specialty or qualifications of individuals who can furnish covered depression screening services. |
| |
| VIII. CMS Analysis |
| National coverage determinations (NCDs) are determinations by the Secretary with respect to whether or not a particular item or service is covered nationally under title XVIII of the Social Security Act §1869(f)(1)(B). In order to be covered by Medicare, an item or service must fall within one or more benefit categories contained within Part A or Part B, and must not be otherwise excluded from coverage. |
| |
| Pursuant to §1861(ddd) of the Social Security Act, CMS may add coverage of "additional preventive services" if certain statutory requirements are met. Our regulations provide: |
| §410.64 Additional preventive services |
| (a) Medicare Part B pays for additional preventive services not described in paragraph (1) or (3) of the definition of "preventive services" under §410.2, that identify medical conditions or risk factors for individuals if the Secretary determines through the national coverage determination process (as defined in section 1869(f)(1)(B) of the Act) that these services are all of the following: |
| determines through the national coverage determination process (as defined in section 1869(f)(1)(B) of the Act) that these services are all of the following: |

Printed on 4/6/2012. Page 32 of 50

| Reasonable and necessary for the prevention or early detection of illness or disability. Recommended with a grade of A or B by the United State Preventive Services Task Force. Appropriate for individuals entitled to benefits under Part A or enrolled under Part B. |
|--|
| (b) In making determinations under paragraph (a) of this section regarding the coverage of a new preventive service, the Secretary may conduct an assessment of the relation between predicted outcomes and the expenditures for such services and may take into account the results of such an assessment in making such national coverage determinations. [41] |
| Is the evidence sufficient to determine that screening for depression is recommended with a grade of A or B by the USPSTF for any indications? |
| The USPSTF Recommendation Statement on "Screening for Depression in Adults" (December 2009) states the following: |
| • The USPSTF recommends screening adults for depression when staff-assisted depression care supports are in place to assure accurate diagnosis, effective treatment and follow-up. Grade: B recommendation . |
| We conclude that screening for depression is recommended with a grade of B by the USPSTF for Medicare beneficiaries when staff-assisted depression care supports are in place to assure accurate diagnosis, effective treatment and follow-up. |
| Is the evidence sufficient to determine that screening for depression is reasonable and necessary for the prevention or early detection of illness or disability? |
| Magruder-Habib, et al. (1990) showed that use of a depression screening instrument improves physician recognition and treatment of depression, but it is the nature of the treatment provided following screening that appears to be the critical concept for improving depression outcomes. That is, screening alone – without organizational enhancement of care – is not enough. Actual improvement in outcomes requires careful follow-up and monitoring, and the care process steps for depression are hence no different than those taken for any other chronic disease: |



Printed on 4/6/2012. Page 34 of 50

Similarly, the USPSTF noted that "the effects of screening cannot be separated from the effects of staff-assisted depression care" and clarified that the "staff-assisted depression care supports" which it recommends be in place means "clinical staff that assist the primary care clinician by providing some direct depression care, such as care support or coordination, case management, or mental health treatment." In its "Clinical Considerations" section, the USPSTF (2009) then practically described that: "In the available evidence, the lowest effective level of staff-assisted depression care supports consisted of a screening nurse who advised resident physicians of positive screening results and provided a protocol that facilitated referral to behavioral treatment. At the highest level, staff-assisted depression care supports included screening; institutional monetary commitment; staff and clinician training (one or two day workshops); clinician manuals; monthly training lectures; academic detailing; many materials for clinicians, staff, and patients; an initial visit with a nurse specialist for follow-up assessment, education, and discussion of patient preferences and goals; a visit with a trained nurse specialist for follow-up assessment and ongoing support for adherence to medication for those prescribed antidepressant medications; a visit with a trained therapy; and a reduced copay for patients referred for psychotherapy."[48] Emphasizing the importance of such care supports in real-world primary care settings, O'Connor and colleagues (2009) noted that as many as 40-67% of patients discontinue their antidepressant medication within 3 months, and few receive adequate follow-up. "Thus, efforts to increase appropriate treatment and improve adherence to treatment are likely to provide the greatest effect. Given the burden on the primary care clinician, it is not surprising that the greatest gains are seen in programs in which other staff provides some of the depression care. Considerable research in recent years has focused on treatment approaches that do just this, such as disease management and collaborative care, which are generally effective and cost-effective."[49] To that end, O'Connor, et al. (2009) elaborated on particular components of effective programs, and as best outlined by Solberg, et al. (2005) in a review of critical missing components in the follow-up and follow-through of depressed primary care patients, key care concepts of include: • Care management by a nonphysician working with the primary care physician, Planned collaborative care between physicians and mental health clinicians, • Education and support of patients for self-management, and

| • Attention to patient preferences [regarding counseling, medications, referral]. [50] | |
|--|--|
| Most recently, Butler, et al. (2011) reviewed 26 clinical trials of integrated depression care in primary care settings and utilized a scoring system composed of ten elements, beginning with screening. Butler and colleagues offered this perspective regarding the path forward: | |
| "Ultimately, the adoption of integrated care models for the care of persons with mental health problems will involve consideration of both effectiveness and costs Integrating general medical and psychiatric service delivery increases the likelihood but does not guarantee that effective interventions are administered. Indeed, integration may not be necessary at all if primary care physicians provide evidence-based psychiatric care. However improvement in the care taken by primary care physicians is achieved, it seems likely to require decreasing their patient panels to accommodate the increased time requirement unless some other type of personnel, such as a case manager [e.g., a nurse], is used to handle the added work. Ultimately, a combination of integration and guideline adherence, using some variant of case managers and supportive health professionals, is the most likely approach to succeed."[52] | |
| We conclude the evidence is sufficient to determine that annual depression screening for adults in primary care settings, when accompanied by staff-assisted depression care supports consisting (at minimum) of a clinical staff person (such as a nurse or physician assistant) who advises physicians of screening results and who facilitates and coordinates referrals to mental health treatment, is reasonable and necessary for the prevention or early detection of illness or disability. | |
| Is the evidence sufficient to determine that screening for depression is appropriate for Medicare beneficiaries? | |
| In 2009, the USPSTF highlighted that "the effects of screening cannot be separated from the effects of staff-assisted depression care" and recommended screening adults for depression when those care supports are in place. But of four screening studies identified by the USPSTF which focused on older adults, only Rubenstein and colleagues' (2007) trial found improved depression outcomes in an intervention group beyond usual care. Notably, this VA ambulatory care center trial was the only study that expanded the role of clinical or office staff to assist with depression care. Rubenstein's trial of a screening, case finding and referral system for older veterans in primary care (mean age = 74 years) involved the assistance of a case manager, who interviewed and referred patients to either primary or specialty care or to a multidisciplinary geriatric assessment team. The case manager (a physician assistant with geriatric expertise) also provided patient education and follow-up. While the intervention ^[53] increased recognition and evaluation of target geriatric conditions (depression, cognitive impairment, urinary incontinence, falls and functional impairment), it did not improve functional status or decrease hospitalization. The authors acknowledged, however, that because participants with new, treatable symptoms were not distinguished from those with irreversible or progressive conditions, participants who did not change or who declined may have diluted overall intervention-related improvements. | |
| The USPSTF additionally stated that "significant depressive symptoms are associated with common life events in older adults, including medical illness, cognitive decline, bereavement, and institutional placement in residential or inpatient settings." Nonetheless, the presence of risk factors alone - such as particularly spousal death and chronic illness in geriatric patients - cannot distinguish depressed patients from nondepressed patients. | |

| Investigating the impact of confounding factors and the complexity of depression, Kales and Valenstein (2002) critically noted that: |
|--|
| "Late-life depression is a heterogeneous syndrome leading to diagnostically ambiguous or complex presentations in many patients. Although depression in elderly patients is highly treatable, the complexity of patients' clinical presentations may result in underdiagnosis and undertreatment, which, in turn, leads to poor outcomes and increased health care utilization Although provider factors, such as ageism and time constraints, may explain part of the underdiagnosis and undertreatment of elderly patients, the complexity of patient presentations also plays an important role. For example, among patients with significant medical illness, clinicians may assume that symptoms of anorexia, weight loss, sleep impairment, or fatigue are secondary to physical illness as opposed to depression Depression is often undetected in elderly primary care patients, and 70% to 90% of depressed elderly medically ill patients may not receive a depression diagnosis." |
| Furthermore, older depressed adults typically have three or more co-occurring chronic illnesses, and among older diabetics (mean age = 70 years) in the IMPACT (Improving Mood-Promoting Access to Collaborative Treatment) trial, systematic depression treatment demonstrated clinical benefit with no increase in overall health care costs. [54] Moreover, "the public health importance of this question is underscored by the increasing prevalence of diabetes and the consistent finding that depression is twice as common among people with diabetes as in the general population." [55] |
| Also evaluating collaborative care in older diabetic patients with comorbid depression, Katon and colleagues' (2004) Pathways study identified potential participants by using a population-based depression screening program (the 9-item PHQ), where all case management intervention services were provided by three registered nurses. In a follow-up cost-effectiveness analysis of the Pathways study, Simon, et al. (2007) clarified that: |
| "Abundant research demonstrates a strong and consistent association between depression and increased use of health services. Total health care costs for outpatients with current depression are 50% to 100% higher than for those without depressive disorder. Increased costs are overwhelmingly due to greater use of general medical services rather than use of depression treatment, and these differences persist after attempting to account for comorbid chronic medical illness. Improvement in depression is followed by decreases in use of general medical care."[56] |
| Accordingly, Simon, et al.'s (2007) study concluded that systematic treatment of older adults with diabetes – who screened positive for at least moderate depressive symptoms – produced significant and sustained increase in days fre of depression, as well as reduced outpatient health services costs. Simon and colleagues thus stated depression screening and systematic depression treatment should become routine components of diabetes care. The 2010 America Diabetes Association (ADA) position statement also recommends assessment of psychological and social situation be included as an ongoing part of the medical management of diabetes - including screening and follow-up for psychosocial problems, such as depression. |
| We conclude that the evidence is sufficient to determine that screening for depression is appropriate for Medicare beneficiaries. |
| |

Disparities in Screening and Behavioral Counseling

| Disparities exist in screening for depression. Kales and Valenstein (2002), for example, noted that "patient race may impact on the patient's symptom presentation or interact with physician bias to decrease detection of depression or affect the types of treatments received by patients. Undetected and undiagnosed depression in such patients can lead to a vicious cycle of increasing disability, further depression, and even suicide."[57] |
|--|
| Evidence also exists in the literature that there may be disparities in health outcomes following screening for depression. For instance, while case-finding for depression trended to benefit patient outcomes in Williams, et al. (1999) randomized trial, the authors believed that the lack of consistent benefit could in part have been related to characteristics of the largely (60%) Hispanic study population. That is, chronic social stresses seen in an urban, low-income and ethnically diverse group of patients may make depression more refractory to treatment. Further, Williams, et al. noted that cross-cultural studies have shown that Hispanic patients may interpret symptoms of depression more benignly, are more likely to use prayer and other nonmedical therapies and are less likely to receive treatment in the mental health specialty setting than non-Hispanic white patients. Hence, following screening and recognition of depression, there may not consistently be positive effects on health outcomes for Hispanic patients. [58] |
| Summary |
| Depression is often unrecognized and untreated in elderly patients, and older individuals whose depression remains undetected (and who are thus only identified through screening) tend to be less impaired and have milder depression. Both major and minor depression, however, are associated with decreased quality of life, increased morbidity, increased functional disability, increased health care utilization and increased medical costs. Depression additionally impairs an elderly person's ability to adhere to disease management regimens such as regularly taking medications, diet, exercise and quitting smoking. Since depression and disability mutually reinforce each other, depression can thus worsen the course of chronic illness and may cause progressive clinical deterioration in older chronically ill patients. [59] |
| There is no gold standard for depression screening, and the USPSTF states that "clinicians may choose the method most consistent with their personal preference, the patient population being served, and the practice setting." Evaluating only studies conducted in general primary care populations, O'Connor, et al. (2009) concluded that good evidence supports the health benefits of programs which combine depression screening and feedback with the support of additional staff to provide some depression care in adults who visit primary care. Based on that systematic evidence review, the USPSTF recommends screening adults for depression when staff-assisted depression care supports are in place and recommends against routinely screening when supports are not in place. |
| Nevertheless, screening tests for depression do not diagnose depression but rather indicate the severity of depression symptoms within a given time period. Patients who score above a test's predetermined cut-off level for significance should be interviewed more specifically to assess for a diagnosis of a depressive disorder and, as clinically indicated, receive appropriate treatment. |

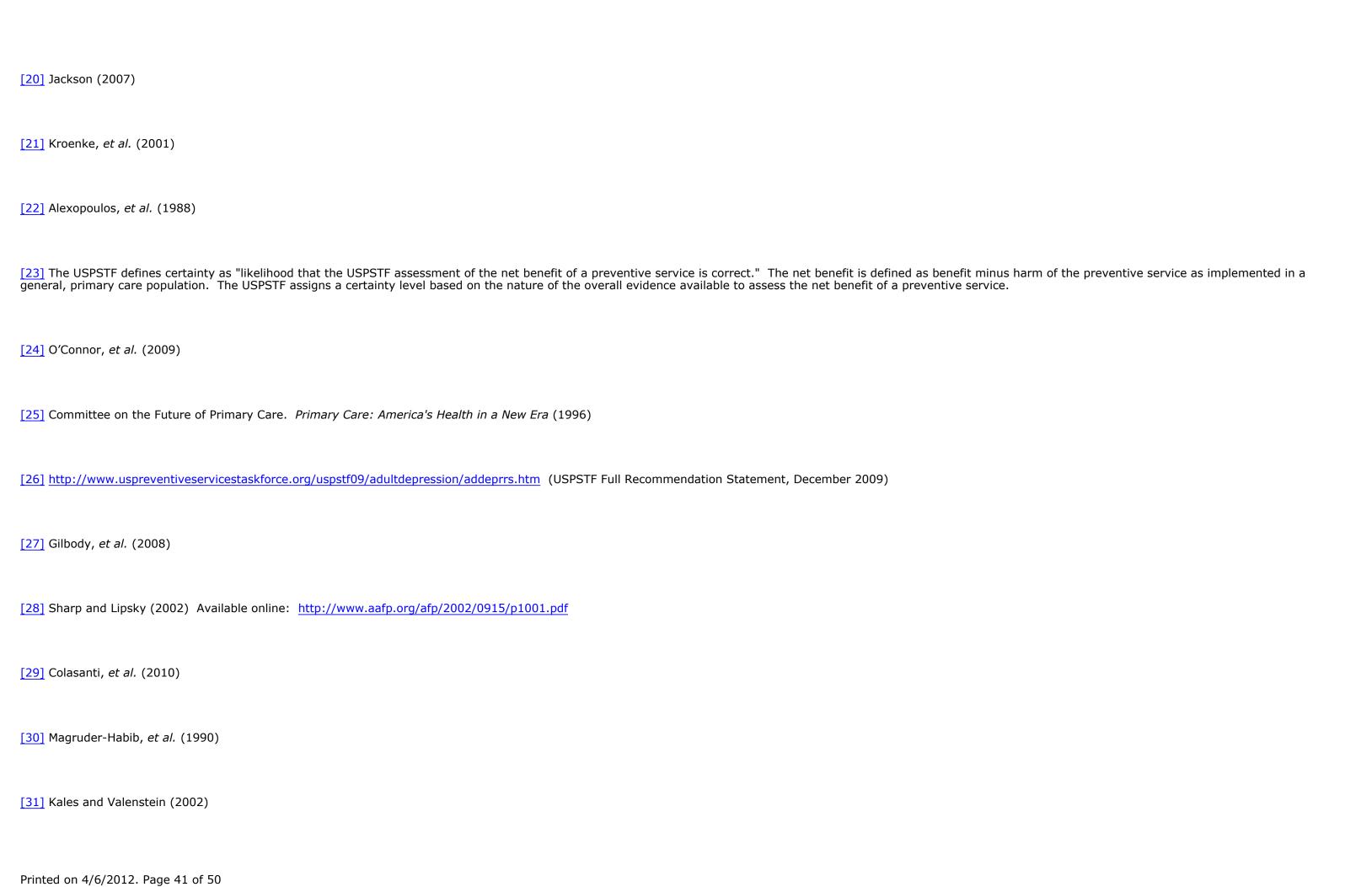
IX. ConclusionPrinted on 4/6/2012. Page 38 of 50

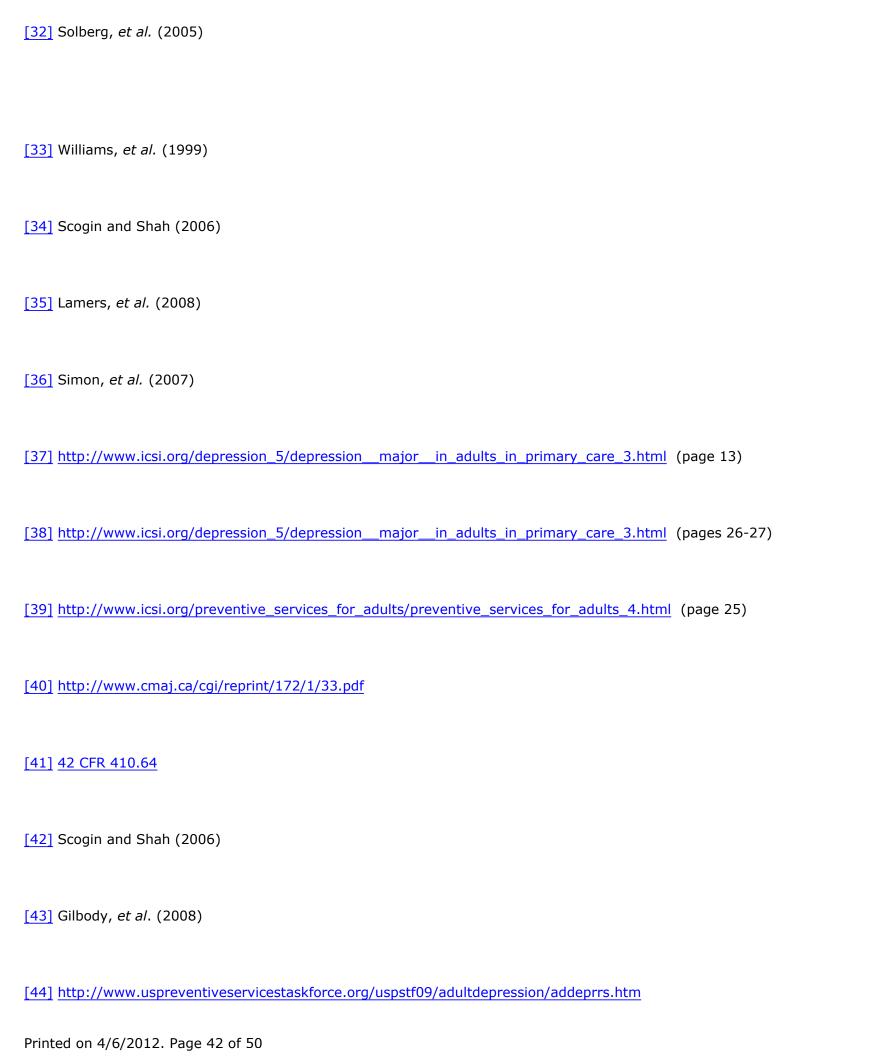
| The Centers for Medicare & Medicaid Services (CMS) has determined that the evidence is adequate to conclude that screening for depression in adults, which is recommended with a grade of B by the U.S. Preventive Services Task Force (USPSTF), is reasonable and necessary for the prevention or early diagnosis of illness or disability and is appropriate for individuals entitled to benefits under Part A or enrolled under Part B. |
|---|
| Therefore CMS will cover annual screening for depression for Medicare beneficiaries in primary care settings that have staff-assisted depression care supports in place to assure accurate diagnosis, effective treatment, and follow-up. For the purposes of this decision memorandum: |
| A primary care setting is defined as one in which there is provision of integrated, accessible health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community. Emergency departments, inpatient hospital settings, ambulatory surgical centers, independent diagnostic testing facilities, skilled nursing facilities, inpatient rehabilitation facilities and hospice are not considered primary care settings under this definition. |
| • At a minimum level, staff-assisted depression care supports consist of clinical staff (e.g., nurse, physician assistant) in the primary care setting who can advise physician of screening results and who can facilitate and coordinate referrals to mental health treatment. |
| [1] Nestler, et al. (2002. |
| [2] Nestler, <i>et al.</i> (2002) |
| [3] Thase, <i>et al.</i> (2000) |
| [4] Baghai, <i>et al.</i> (2006) |
| [5] Wang, et al. (2005) |
| [6] Surgeon General's Report (1999) |

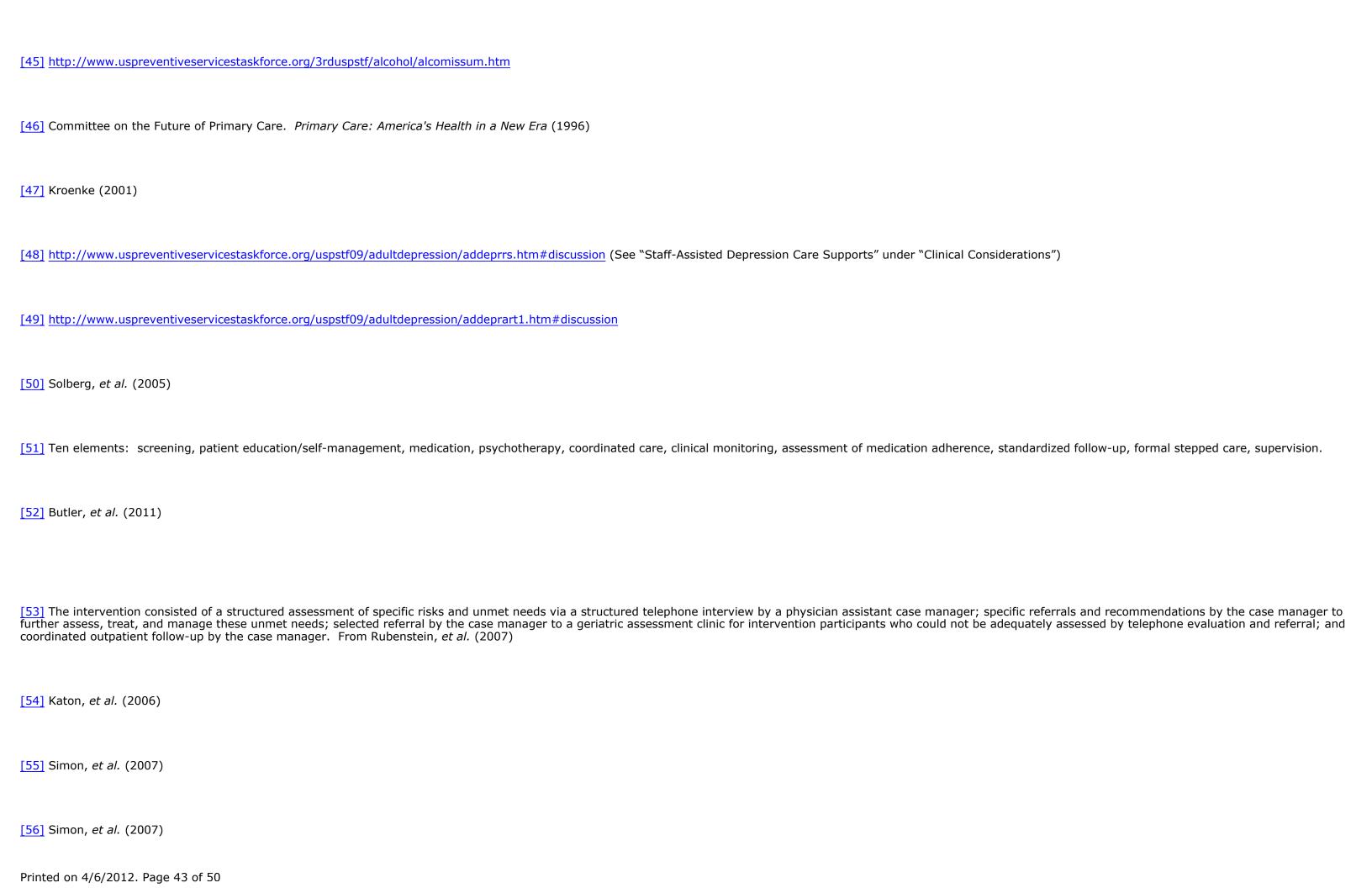
Printed on 4/6/2012. Page 39 of 50

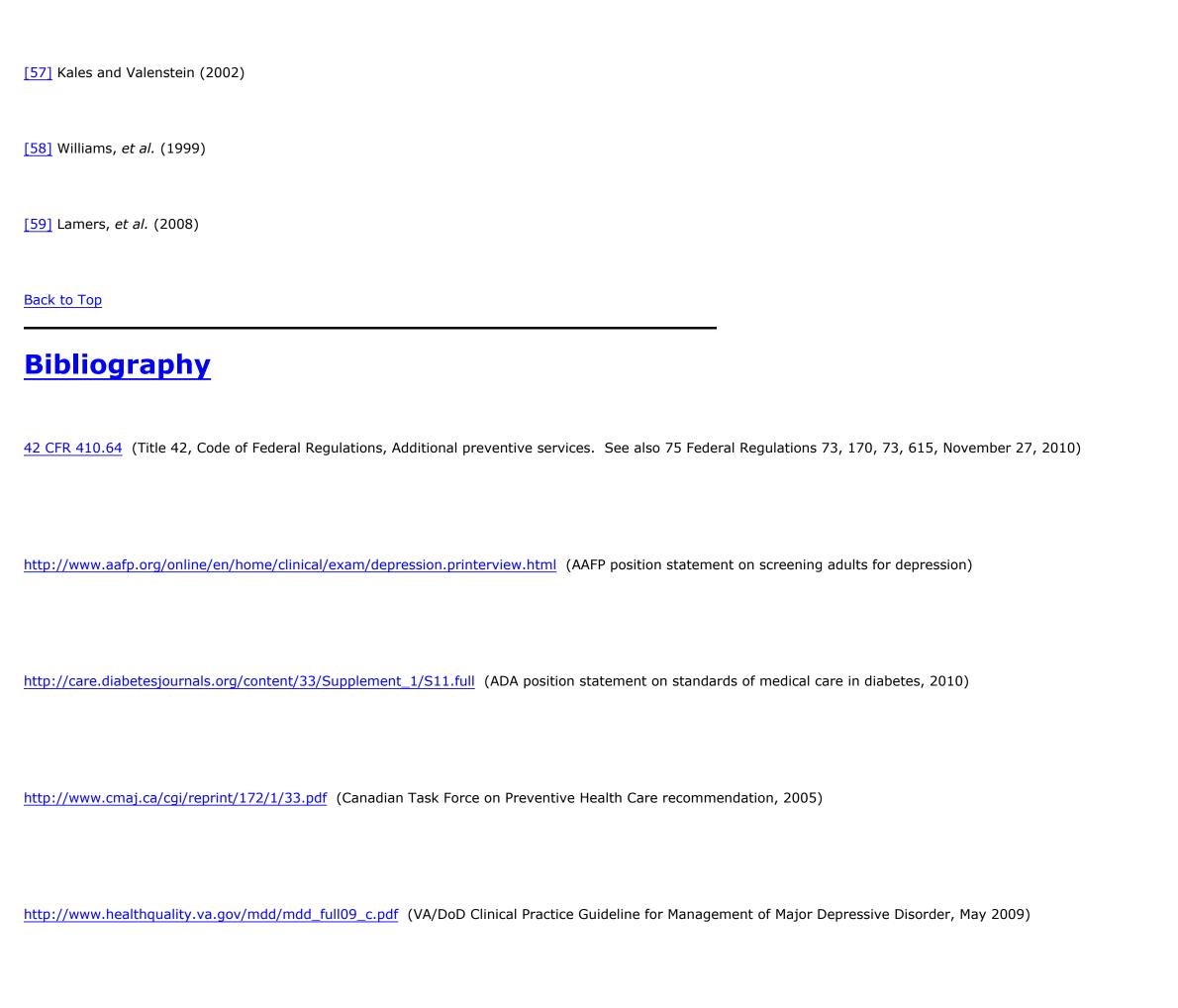
```
[7] Pignone, et al. (2002)
[8] Greenberg, et al. (2003)
[9] O'Connor, et al. (2009)
[10] O'Connor, et al. (2009).
[11] American Psychiatric Association: DSM-IV (1994)
[12] <u>42 CFR 410.64</u> See also 75 Federal Regulations 73, 170, 73, 615 (November 27, 2010).
[13] Cochrane and Holland (1971)
[14] http://www.nice.org.uk/nicemedia/live/12329/45896/45896.pdf (pages 102-111)
[15] Hamilton (1960)
[16] Beck, et al. (1960)
[17] Zung and King (1983)
[18] Radloff (1977)
[19] Yesavage, et al. (1982)
```

Printed on 4/6/2012. Page 40 of 50



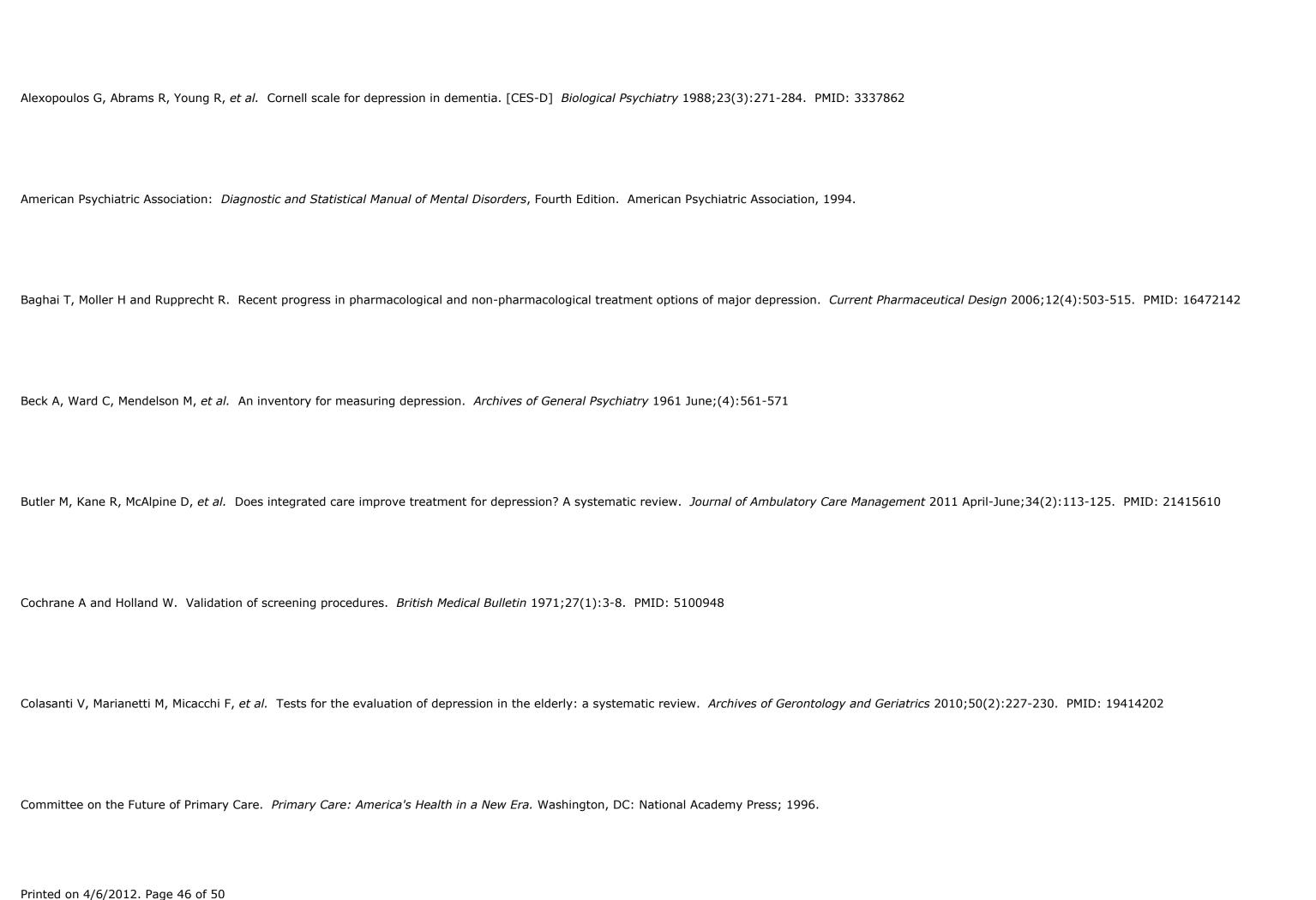


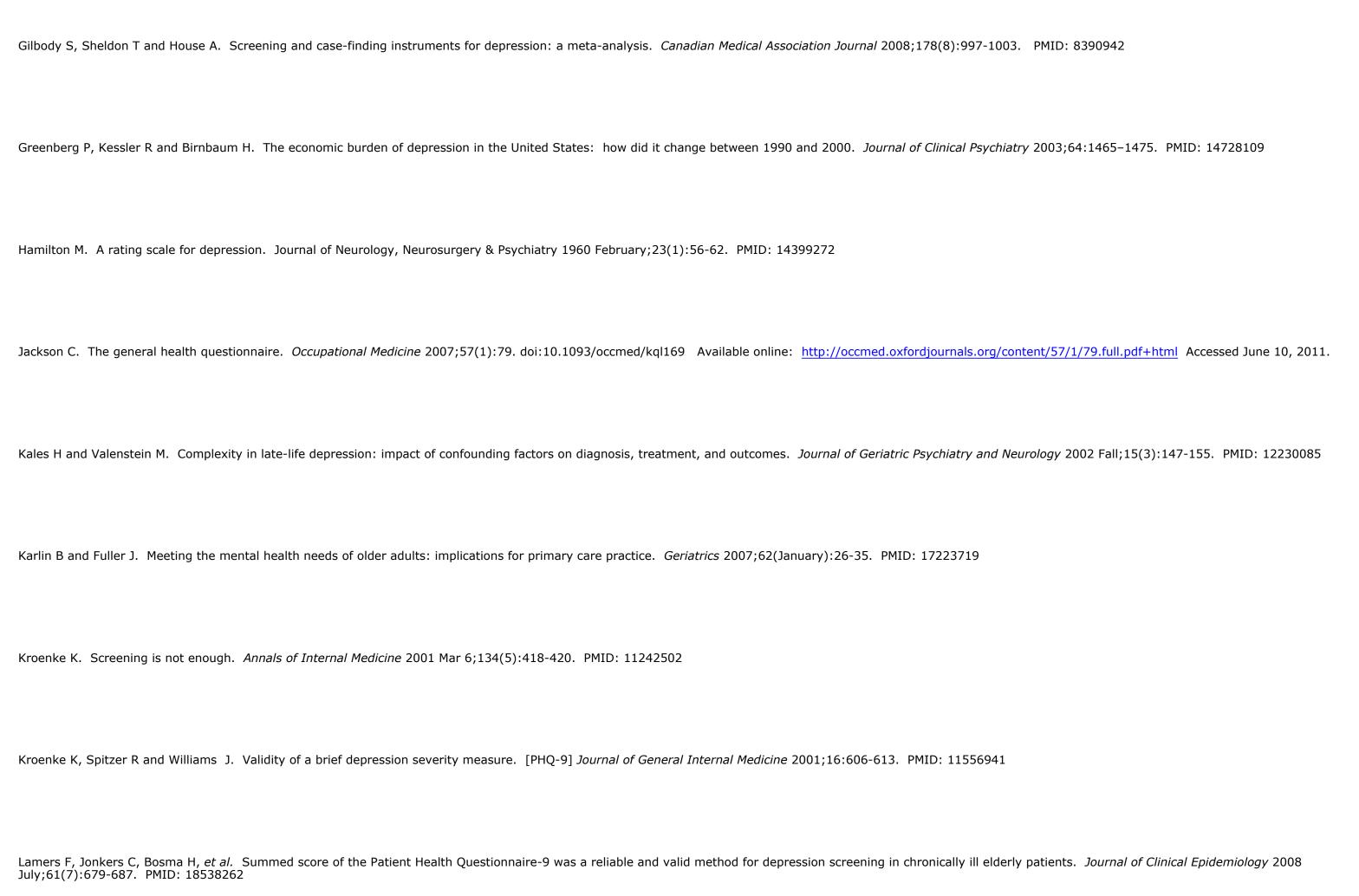




| http://www.icsi.org/depression_5/depression_major_in_adults_in_primary_care_3.html (ICSI Health Care Guideline "Major Depression in Adults in Primary Care", May 2010) |
|--|
| http://www.icsi.org/preventive_services_for_adults/preventive_services_for_adults_4.html (ICSI Health Care Guideline "Preventive Services for Adults", September 2010) |
| http://www.jfponline.com/Pages.asp?AID=8010 (ACPM position statement) |
| http://www.ncbi.nlm.nih.gov/books/NBK36403/pdf/TOC.pdf (O'Connor, et al.'s "Screening for Depression in Adults and Older Adults in Primary Care: An Updated Systematic Review", December 2009) |
| http://www.nice.org.uk/nicemedia/live/12329/45896/45896.pdf (NICE guideline CG90 on depression in adults, including screening tools on pages 102-111. October 2009) |
| http://www.uspreventiveservicestaskforce.org/uspstf/uspsaddepr.htm (USPSTF Summary Recommendation Statement, December 2009) |
| http://www.uspreventiveservicestaskforce.org/uspstf09/adultdepression/addeprrs.htm (USPSTF Full Recommendation Statement, December 2009) |
| http://www.uspreventiveservicestaskforce.org/uspstf09/adultdepression/addeprsum.htm (Clinical Summary of USPSTF Recommendation, December 2009) |
| http://www.uspreventiveservicestaskforce.org/uspstf/gradespost.htm (USPSTF Grade Definitions After May 2007 |

Printed on 4/6/2012. Page 45 of 50





Printed on 4/6/2012. Page 47 of 50

| Magruder-Habib K, Zung W and Feussner J. Improving physicians' recognition and treatment of depression in general medical care. Results from a randomized clinical trial. <i>Medical Care</i> 1990;28(3):239-50. PMID: 2179650 |
|---|
| Nestler E, Barrot M, DiLeone R, et al. Neurobiology of depression. Neuron 2002;34(1):13-25. PMID: 11931738 |
| Nimalasuriya K, Compton M, and Guillory V. Screening adults for depression in primary care: A position statement of the American College of Preventive Medicine. <i>The Journal of Family Practice</i> 2009 October;58(10):535-538. PMID 19874732 Available online: http://www.jfponline.com/Pages.asp?AID=8010 Accessed June 10, 2011. |
| O'Connor E, Whitlock E, Beil T, et al. Screening for depression in adult patients in primary care settings: a systematic evidence review. Annals of Internal Medicine 2009 December 1:151(11):793-803. PMID: 19949145 Available online: http://www.annals.org/content/151/11/793.full Accessed June 10, 2011. |
| O'Connor E, Whitlock E, Gaynes B, et al. Screening for depression in adults and older adults in primary care: an updated systematic review. Agency for Healthcare Research and Quality, December 2009, Report Number 10-05143-EF 1. Available online: http://www.ncbi.nlm.nih.gov/books/NBK36403/pdf/TOC.pdf Accessed June 10, 2011. |
| Pignone M, Gaynes B, Rushton J, et al. Screening for depression in adults: a summary of the evidence for the U.S. Preventive Services Task Force. Annals of Internal Medicine 2002;136:765-776. PMID: 12020146 Available online: http://www.annals.org/content/136/10/765.full.pdf Accessed June 10, 2011. |
| Radloff L. The CES-D scale: a self-report depression scale for research in the general population. Applied Psychological Measurement 1977;1(3):385-401. DOI: 10.1177/014662167700100306 |
| Rubenstein L, Alessi C, Josephson K, et al. A randomized trial of a screening, case finding, and referral system for older veterans in primary care. Journal of the American Geriatric Society 2007;55:166-174. PMID: 17302651 |

Printed on 4/6/2012. Page 48 of 50

| Scogin F and Shah A. Screening older adults for depression in primary care settings. Health Psychology 2006 November; 25(6):675-677. PMID: 17100495 |
|---|
| Sharp L and Lipsky M. Screening for depression across the lifespan: a review of measures for use in primary care settings. <i>American Family Physician</i> 2002 September 15;66(6):1001-1009. PMID: 12358212 Available online: http://www.aafp.org/afp/2002/0915/p1001.pdf Accessed June 14, 2011. |
| Simon G, Katon W, Lin E, et al. Cost-effectiveness of systematic depression treatment among people with diabetes mellitus. Archives of General Psychiatry 2007 Januarry;64(1):65-72. PMID: 17199056 |
| Solberg L, Trangle M and Wineman. Follow-up and follow-through of depressed patients in primary care: the critical missing components of quality care. Journal of the American Board of Family Practice 2005;18(6):520-527. PMID: 16322414 |
| U.S. Department of Health and Human Services. Mental Health: A Report of the Surgeon General. [Internet] Rockville, MD: U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration Center for Mental Health Services, National Institutes for Health, National Institute of Mental Health, 1999. Available online: http://www.surgeongeneral.gov/library/mentalhealth/home.html Accessed June 10, 2011. |
| Wang P, Schneeweiss S, Brookhart A, et al. Suboptimal antidepressant use in the elderly. Journal of Clinical Psychopharmacology 2005;25 (2):118-126. PMID: 15738742 |
| Williams J, Mulrow C, Kroenke K, et al. Case-finding for depression in primary care: a randomized trial. American Journal of Medicine 1999;106(1):36-43. PMID: 10320115 |
| Yesavage J, Brink T, Rose T, et al. Development and validation of a geriatric depression screening scale: a preliminary report. Journal of Psychiatric Research 1982-1983:17(1):37-49. PMID: 7183759 |

Printed on 4/6/2012. Page 49 of 50

Zung W and King R. Identification and treatment of masked depression in a general medical practice. Journal of Clinical Psychiatry 1983; 44:365-368. PMID: 6643397

Back to Top